

Takao Tsuneda

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87

papers

7,019

citations

29

h-index

83

g-index

92

ext. papers

7,506

ext. citations

4.1

avg, IF

5.93

L-index

#	Paper	IF	Citations
87	A long-range correction scheme for generalized-gradient-approximation exchange functionals. <i>Journal of Chemical Physics</i> , 2001 , 115, 3540-3544	3.9	1881
86	A long-range-corrected time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2004 , 120, 8425-33	3.9	1512
85	Nonlinear optical property calculations by the long-range-corrected coupled-perturbed Kohn-Sham method. <i>Journal of Chemical Physics</i> , 2005 , 122, 234111	3.9	261
84	A new one-parameter progressive ColleSalvetti-type correlation functional. <i>Journal of Chemical Physics</i> , 1999 , 110, 10664-10678	3.9	259
83	On Koopmans's theorem in density functional theory. <i>Journal of Chemical Physics</i> , 2010 , 133, 174101	3.9	258
82	Long-range corrected density functional calculations of chemical reactions: redetermination of parameter. <i>Journal of Chemical Physics</i> , 2007 , 126, 154105	3.9	258
81	A density functional study of van der Waals interactions. <i>Journal of Chemical Physics</i> , 2002 , 117, 6010-6015	3.9	245
80	An investigation of density functionals: The first-row transition metal dimer calculations. <i>Journal of Chemical Physics</i> , 2000 , 112, 545-553	3.9	197
79	Excited state geometry optimizations by analytical energy gradient of long-range corrected time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2006 , 124, 144106	3.9	188
78	Spectroscopic tracking of structural evolution in ultrafast stilbene photoisomerization. <i>Science</i> , 2008 , 322, 1073-7	33.3	173
77	A density-functional study on pi-aromatic interaction: benzene dimer and naphthalene dimer. <i>Journal of Chemical Physics</i> , 2005 , 123, 104307	3.9	167
76	Long-range corrected density functional study on weakly bound systems: balanced descriptions of various types of molecular interactions. <i>Journal of Chemical Physics</i> , 2007 , 126, 234114	3.9	133
75	Long-range correction for density functional theory. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014 , 4, 375-390	7.9	98
74	A New Mechanism for the First Carbon-Carbon Bond Formation in the MTG Process: A Theoretical Study. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8222-8229	16.4	93
73	Density Functional Theory in Quantum Chemistry 2014 ,		90
72	Theoretical study of the excitation spectra of five-membered ring compounds: Cyclopentadiene, furan, and pyrrole. <i>Journal of Chemical Physics</i> , 1996 , 104, 2312-2320	3.9	75
71	Long-range corrected density functional theory study on static second hyperpolarizabilities of singlet diradical systems. <i>Journal of Chemical Physics</i> , 2010 , 132, 094107	3.9	74

70	The structure of monomeric and dimeric uranyl adsorption complexes on gibbsite: A combined DFT and EXAFS study. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 5975-5988	5.5	67
69	A new spin-polarized Colle-Salvetti-type correlation energy functional. <i>Chemical Physics Letters</i> , 1997 , 268, 510-520	2.5	63
68	Calculations of alkane energies using long-range corrected DFT combined with intramolecular van der Waals correlation. <i>Organic Letters</i> , 2010 , 12, 1440-3	6.2	56
67	Self-interaction corrections in density functional theory. <i>Journal of Chemical Physics</i> , 2014 , 140, 18A513	3.9	52
66	Regional self-interaction correction of density functional theory. <i>Journal of Computational Chemistry</i> , 2003 , 24, 1592-8	3.5	42
65	Experimental and Theoretical Infrared Spectroscopic Study on Hydrated Nafion Membrane. <i>Macromolecules</i> , 2016 , 49, 6621-6629	5.5	38
64	Electron-nucleus correlation functional for multicomponent density-functional theory. <i>Physical Review A</i> , 2014 , 89,	2.6	36
63	Investigation of the use of density functionals in second- and third-row transition metal dimer calculations. <i>Journal of Computational Chemistry</i> , 2001 , 22, 1995-2009	3.5	36
62	Water cluster anions studied by the long-range corrected density functional theory. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 9845-53	2.8	34
61	Long-range corrected time-dependent density functional study on fluorescence of 4,4Rdimethylaminobenzonitrile. <i>Journal of Chemical Physics</i> , 2007 , 126, 034504	3.9	33
60	Parameter-free exchange functional. <i>Physical Review B</i> , 2000 , 62, 15527-15531	3.3	31
59	Reaction energetics on long-range corrected density functional theory: Diels-Alder reactions. <i>Journal of Computational Chemistry</i> , 2013 , 34, 379-86	3.5	30
58	Theoretical Investigation of the HO-Induced Degradation Mechanism of Hydrated Nafion Membrane via Ether-Linkage Dissociation. <i>ACS Omega</i> , 2017 , 2, 4053-4064	3.9	24
57	An examination of density functional theories on isomerization energy calculations of organic molecules. <i>Theoretical Chemistry Accounts</i> , 2011 , 130, 851-857	1.9	24
56	Theoretical study on molecular property of protactinium(V) and uranium(VI) oxocations: why does protactinium(V) form monooxo cations in aqueous solution?. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 13303-9	2.8	23
55	UTChem \square Program for ab initio Quantum Chemistry. <i>Lecture Notes in Computer Science</i> , 2003 , 84-95	0.9	22
54	A theoretical investigation on photocatalytic oxidation on the TiO ₂ surface. <i>Journal of Chemical Physics</i> , 2012 , 136, 024706	3.9	21
53	Density functional theory for comprehensive orbital energy calculations. <i>Journal of Chemical Physics</i> , 2013 , 139, 064102	3.9	20

52	Theoretical investigation of adsorption of organic molecules onto Fe(110) surface. <i>Computational and Theoretical Chemistry</i> , 2005 , 716, 45-60		20
51	A reexamination of exchange energy functionals. <i>Journal of Chemical Physics</i> , 1999 , 111, 5656-5667	3.9	20
50	An efficient state-specific scheme of time-dependent density functional theory. <i>Chemical Physics Letters</i> , 2006 , 420, 391-396	2.5	19
49	Modified regional self-interaction correction method based on the pseudospectral method. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 8521-8	2.8	18
48	Chemical exchange reaction of glycinatocopper(II) complex in water: a theoretical study. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 10403-9	2.8	18
47	A transversing connection between density functionals. <i>Journal of Chemical Physics</i> , 2001 , 114, 6505-6513	3.9	18
46	Theoretical investigations on geometrical and electronic structures of silver clusters. <i>Journal of Computational Chemistry</i> , 2019 , 40, 206-211	3.5	17
45	Spin-orbit relativistic long-range corrected time-dependent density functional theory for investigating spin-forbidden transitions in photochemical reactions. <i>Journal of Chemical Physics</i> , 2011 , 135, 224106	3.9	14
44	Mechanism of HO Decomposition by Triphenylphosphine Oxide. <i>ACS Omega</i> , 2018 , 3, 259-265	3.9	13
43	Recent advances in ab initio, density functional theory, and relativistic electronic structure theory		13
42	Research activities of the theoretical chemistry group at the University of Tokyo. <i>Computational and Theoretical Chemistry</i> , 2001 , 573, 91-128		13
41	Theoretical and Experimental Studies on the Near-Infrared Photoreaction Mechanism of a Silicon Phthalocyanine Photoimmunotherapy Dye: Photoinduced Hydrolysis by Radical Anion Generation. <i>ChemPlusChem</i> , 2020 , 85, 1959-1963	2.8	12
40	Reactivity index based on orbital energies. <i>Journal of Computational Chemistry</i> , 2014 , 35, 1093-100	3.5	12
39	2,6-Bis(trifluoromethyl)phenylboronic Esters as Protective Groups for Diols: A Protection/Deprotection Protocol for Use under Mild Conditions. <i>Organic Letters</i> , 2018 , 20, 6064-6068	6.2	12
38	On low-lying excited states of extended nanographenes. <i>Journal of Computational Chemistry</i> , 2017 , 38, 2020-2029	3.5	11
37	Theoretical study on the excess electron binding mechanism in the $[\text{CH}_3\text{NO}_2 \cdot (\text{H}_2\text{O})_n]^-$ ($n = 1-6$) anion clusters. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 8939-47	2.8	11
36	Anharmonic vibrational state calculations in the electronic excited states studied by time-dependent density functional theory. <i>Chemical Physics Letters</i> , 2007 , 436, 30-35	2.5	11
35	A dual-level state-specific time-dependent density-functional theory. <i>Journal of Computational Chemistry</i> , 2008 , 29, 1187-97	3.5	11

34	LONG-RANGE-CORRECTED TIME-DEPENDENT DENSITY FUNCTIONAL STUDY ON ELECTRONIC SPECTRA OF FIVE-MEMBERED RING COMPOUNDS AND FREE-BASE PORPHYRIN. <i>Journal of Theoretical and Computational Chemistry</i> , 2006 , 05, 925-944	1.8	11
33	Chemical reaction analyses based on orbitals and orbital energies. <i>International Journal of Quantum Chemistry</i> , 2015 , 115, 270-282	2.1	10
32	Modular Synthesis of Carbon-Substituted Furoxans via Radical Addition Pathway. Useful Tool for Transformation of Aliphatic Carboxylic Acids Based on "Build-and-Scrap" Strategy. <i>Organic Letters</i> , 2020 , 22, 1182-1187	6.2	10
31	The relativistic effect on energies of light elements: a RESC-BOP study. <i>Computational and Theoretical Chemistry</i> , 2001 , 537, 63-70		10
30	Synthesis and Synthetic Application of Chloro- and Bromofuroxans. <i>Journal of Organic Chemistry</i> , 2020 , 85, 5959-5972	4.2	9
29	Theoretical investigations on hydrogen peroxide decomposition in aquo. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24992-24999	3.6	9
28	Roles of silver nanoclusters in surface-enhanced Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2019 , 151, 094102	3.9	8
27	Theoretical investigation of local proton conductance in the proton exchange membranes. <i>Chemical Physics Letters</i> , 2014 , 608, 11-16	2.5	8
26	Fenton reaction mechanism generating no OH radicals in Nafion membrane decomposition. <i>Scientific Reports</i> , 2020 , 10, 18144	4.9	8
25	Relationship between orbital energy gaps and excitation energies for long-chain systems. <i>Journal of Computational Chemistry</i> , 2016 , 37, 1451-62	3.5	8
24	An examination of density functionals on aldol, Mannich and Mannich-amine oxylation reaction enthalpy calculations. <i>Theoretical Chemistry Accounts</i> , 2011 , 130, 153-160	1.9	7
23	RECENT ADVANCES IN ELECTRONIC STRUCTURE THEORY. <i>Journal of Theoretical and Computational Chemistry</i> , 2002 , 01, 109-136	1.8	6
22	Theoretical Investigations on the Photoinduced Phase Transition Mechanism of Tetrathiafulvalene-p-chloranil. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 2233-9	6.4	5
21	Modified regional self-interaction corrected time-dependent density functional theory for core excited-state calculations. <i>Journal of Computational Chemistry</i> , 2009 , 30, 2583-93	3.5	5
20	Density Functional Theory as a Data Science. <i>Chemical Record</i> , 2020 , 20, 618-639	6.6	5
19	Diagrams for comprehensive molecular orbital-based chemical reaction analyses: reactive orbital energy diagrams. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 14211-14222	3.6	3
18	Orbital Energy-Based Reaction Analysis of SN2 Reactions. <i>Computation</i> , 2016 , 4, 23	2.2	3
17	On principal features of organic electrolyte molecules in lithium ion battery performance. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22990-22998	3.6	3

16	Quantum Chemical Estimation of Acetone Physisorption on Graphene Using Combined Basis Set and Size Extrapolation Schemes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8999-9010	3.8	2
15	Stochastic Search of Molecular Cluster Interaction Energy Surfaces with Coupled Cluster Quality Prediction. The Phenylacetylene Dimer. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3848-54	6.4	2
14	INVESTIGATION OF DOMINANT ELECTRON CONFIGURATIONS IN TIME-DEPENDENT DENSITY FUNCTIONAL THEORY. <i>Journal of Theoretical and Computational Chemistry</i> , 2005 , 04, 265-280	1.8	2
13	Relativistic Density Functional Theory. <i>Journal of Computer Chemistry Japan</i> , 2014 , 13, 71-82	0.2	1
12	Theoretical Investigations on How to Reproduce d π Bonds: Transition-Metal Cation-Benzene Complex Calculations. <i>Bulletin of the Chemical Society of Japan</i> , 2009 , 82, 1367-1371	5.1	1
11	One-to-One Correspondence between Reaction Pathways and Reactive Orbitals. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 6901-6909	6.4	1
10	Exchange-Correlation Functionals 2014 , 101-124		1
9	Orbital Energy 2014 , 161-188		1
8	A New Electron-nucleus Correlation Functional for Multicomponent Density Functional Theory. <i>Journal of Computer Chemistry Japan</i> , 2016 , 15, 143-147	0.2	1
7	Quantum Chemistry 2014 , 1-33		1
6	Reply to the Comment on "Theoretical investigations on hydrogen peroxide decomposition in aqueous solution" by W. H. Koppenol, , 2021, , DOI: 10.1039/D1CP03545B. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26006-26008	3.6	0
5	Stacking on Density Functional Theory: A Review 2014 , 245-270		0
4	Catalytic Functionalization of Hexagonal Boron Nitride for Oxidation and Epoxidation Reactions by Molecular Oxygen. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19219-19228	3.8	0
3	A TRANSVERSING PHYSICAL CONNECTION BETWEEN KINETIC, EXCHANGE, AND CORRELATION FUNCTIONALS 2002 , 684-718		
2	Corrections for Functionals 2014 , 125-160		
1	Appendix: Fundamental Conditions 2014 , 189-196		