Haruyuki Nakano

List of Publications by Year
in descending order

123 papers	4,320 citations	117453 34 h-index	118652 62 g-index
127 all docs	127 docs citations	127 times ranked	2909 citing authors

#	Article	IF	Citations
1	Quasidegenerate perturbation theory with multiconfigurational selfâ€consistentâ€field reference functions. Journal of Chemical Physics, 1993, 99, 7983-7992.	1.2	871
2	MCSCF reference quasidegenerate perturbation theory with Epsteinâ€"Nesbet partitioning. Chemical Physics Letters, 1993, 207, 372-378.	1.2	265
3	Theoretical Study of the Q and B Bands of Free-Base, Magnesium, and Zinc Porphyrins, and Their Derivatives. Journal of Physical Chemistry A, 1999, 103, 1894-1904.	1.1	157
4	Theoretical study of the ???* excited states of linear polyenes: The energy gap between 11Bu+ and 21Ag? states and their character. International Journal of Quantum Chemistry, 1998, 66, 157-175.	1.0	146
5	Theoretical study of the valence Ï€â†'Ï€* excited states of polyacenes: Benzene and naphthalene. Journal of Chemical Physics, 1996, 104, 6244-6258.	1.2	133
6	Quasi-degenerate perturbation theory withgeneral multiconfiguration self-consistent field reference functions. Journal of Computational Chemistry, 2002, 23, 1166-1175.	1.5	106
7	A complete active space valence bond (CASVB) method. Journal of Chemical Physics, 1996, 105, 9227-9239.	1.2	87
8	Theoretical study of the valence Ï€ â†' Ï€ * excited states of polyacenes: anthracene and naphthacene. Theoretical Chemistry Accounts, 1999, 102, 49-64.	0.5	81
9	Theoretical study of the excitation spectra of fiveâ€membered ring compounds: Cyclopentadiene, furan, and pyrrole. Journal of Chemical Physics, 1996, 104, 2312-2320.	1.2	80
10	Study of lowâ€lying electronic states of ozone by multireference Mo/llerâ€"Plesset perturbation method. Journal of Chemical Physics, 1995, 103, 6520-6528.	1.2	78
11	Transition state barrier height for the reaction H2COâ†'H2+CO studied by multireference Mo/llerâ€"Plesset perturbation theory. Journal of Chemical Physics, 1997, 106, 4912-4917.	1.2	77
12	Redoxâ€Switchable 20Ï€â€, 19Ï€â€, and 18Ï€â€Electron 5,10,15,20â€Tetraarylâ€5,15â€diazaporphyrinoid Nickel(II) Complexes. Angewandte Chemie - International Edition, 2016, 55, 2235-2238.	7.2	70
13	The Ï€â†'Ï€* excited states of long linear polyenes studied by the CASCI-MRMP method. Chemical Physics Letters, 2004, 400, 425-429.	1.2	64
14	Redox-Coupled Complexation of 23-Phospha-21-thiaporphyrin with Group 10 Metals: A Convenient Access to Stable Core-Modified Isophlorinâ^Metal Complexes. Journal of the American Chemical Society, 2008, 130, 16446-16447.	6.6	63
15	Free Base and Metal Complexes of 5,15-Diaza-10,20-dimesitylporphyrins: Synthesis, Structures, Optical and Electrochemical Properties, and Aromaticities. Inorganic Chemistry, 2012, 51, 12879-12890.	1.9	63
16	Nickel(II) and Copper(II) Complexes of Î²â€Unsubstituted 5,15â€Diazaporphyrins and Pyridazineâ€Fused Diazacorrinoids: Metalâ€"Template Syntheses and Peripheral Functionalizations. Chemistry - A European Journal, 2012, 18, 6208-6216.	1.7	63
17	Synthesis and photoreactivity of Î±-diketone-type precursors of acenes and their use in organic-device fabrication. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2014, 18, 50-70.	5.6	62
18	Synthesis of a Phosphorus-Containing Hybrid Porphyrin. Organic Letters, 2006, 8, 5713-5716.	2.4	60

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19	Relativistic quasidegenerate perturbation theory with four-component general multiconfiguration reference functions. Journal of Chemical Physics, 2006, 124, 044101.	1.2	60
20	A quasi-complete active space self-consistent field method. Chemical Physics Letters, 2000, 317, 90-96.	1.2	55
21	Theoretical study of electronic and geometric structures of a series of lanthanide trihalides LnX3 (Ln=Laâ€“Lu; X=Cl, F). Computational and Theoretical Chemistry, 1999, 461-462, 203-222.	1.5	54
22	Second-order quasi-degenerate perturbation theory with quasi-complete active space self-consistent field reference functions. Journal of Chemical Physics, 2001, 114, 1133-1141.	1.2	54
23	Efficient implementation of relativistic and non-relativistic quasidegenerate perturbation theory with general multiconfigurational reference functions. Chemical Physics Letters, 2007, 442, 164-169.	1.2	52
24	Analytic energy gradients for multiconfigurational self-consistent field second-order quasidegenerate perturbation theory (MC-QDPT). Journal of Chemical Physics, 1998, 108, 5660-5669.	1.2	51
25	Monophosphaporphyrins:â€‰ Oxidative Ï€-Extension at the Peripherally Fused Carbocycle of the Phosphaporphyrin Ring. Organic Letters, 2008, 10, 553-556.	2.4	50
26	A study of the ground state of manganese dimer using quasidegenerate perturbation theory. Journal of Chemical Physics, 2006, 124, 124302.	1.2	48
27	Theoretical study of valence and Rydberg excited states of benzene revisited. Computational and Theoretical Chemistry, 1998, 451, 25-33.	1.5	45
28	Synthesis and Reactions of Phosphaporphyrins: Reconstruction of Ï€-Skeleton Triggered by Oxygenation of a Core Phosphorus Atom. Journal of Organic Chemistry, 2010, 75, 375-389.	1.7	45
29	Theoretical study of the Ï€ â†’ Ï€â^— excited states of linear polyene radical cations and dications. Chemical Physics Letters, 1997, 267, 82-90.	1.2	43
30	Theoretical study of the electronic ground state of iron(II) porphine. Chemical Physics Letters, 1998, 295, 380-388.	1.2	39
31	Multireference perturbation theory with optimized partitioning. I. Theoretical and computational aspects. Journal of Chemical Physics, 2003, 118, 8197-8206.	1.2	39
32	Syntheses, Properties, and Catalytic Activities of Metal(II) Complexes and Free Bases of Redoxâ€Switchable 20Ï€, 19Ï€, and 18Ï€ 5,10,15,20â€Tetraarylâ€5,15â€diazaporphyrinoids. Chemistry - A European Journal, 2017, 23, 16364-16373.	1.7	38
33	Templating Effects on the Mineralization of Layered Inorganic Compounds:Â (1) Density Functional Calculations of the Formation of Single-Layered Magnesium Hydroxide as a Brucite Model. Langmuir, 2003, 19, 7120-7126.	1.6	37
34	A complete active space valence bond method with nonorthogonal orbitals. Journal of Chemical Physics, 1997, 107, 9966-9974.	1.2	36
35	Diverse Structures and Remarkable Oxidizing Ability of Triarylbismuthane Oxides. Comparative Study on the Structure and Reactivity of a Series of Triarylpnictogen Oxides. Organometallics, 2004, 23, 5471-5480.	1.1	36
36	A study of FeCO+ with correlated wavefunctions. Physical Chemistry Chemical Physics, 1999, 1, 967-975.	1.3	31

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37	Effect of removing the no-virtual pair approximation on the correlation energy of the He isoelectronic sequence. II. Point nuclear charge model. Journal of Chemical Physics, 2010, 132, 124105.	1.2	30
38	Synthesis, Structure, and Reactions of (Acylimino)triaryl-Î»5-bismuthanes:Â First Comparative Study of the (Acylimino)pnictorane Series. Journal of the American Chemical Society, 2001, 123, 10954-10965.	6.6	28
39	Effect of removing the no-virtual-pair approximation on the correlation energy of the He isoelectronic sequence. Journal of Chemical Physics, 2007, 126, 174105.	1.2	28
40	Redoxâ€Switchable 20Ï€â€, 19Ï€â€, and 18Ï€â€Electron 5,10,15,20â€Tetraarylâ€5,15â€diazaporphyrinoid Nickel(II) Complexes. Angewandte Chemie, 2016, 128, 2275-2278.	1.6	28
41	Covalently Linked 5,15â€Diazaporphyrin Dimers: Promising Scaffolds for a Highly Conjugated Azaporphyrin Ï€ System. Chemistry - A European Journal, 2014, 20, 3342-3349.	1.7	27
42	Ring Opening of Silacyclobutane. Journal of the American Chemical Society, 1997, 119, 11966-11973.	6.6	26
43	Multireference perturbation theory with optimized partitioning. II. Applications to molecular systems. Journal of Computational Chemistry, 2003, 24, 1390-1400.	1.5	26
44	UTChem â€" A Program for ab initio Quantum Chemistry. Lecture Notes in Computer Science, 2003, , 84-95.	1.0	26
45	Multireference MÃ¸ller-Plesset perturbation treatment for valence and Rydberg excited states of benzene. Chemical Physics Letters, 1995, 235, 430-435.	1.2	25
46	Identification of geometrical isomers using vibrational circular dichroism spectroscopy: a series of mixed-ligand complexes of diamagnetic Co(<scp>iii</scp>) ions. Dalton Transactions, 2011, 40, 1332-1337.	1.6	25
47	New algorithm for electron repulsion integrals oriented to the general contraction scheme. International Journal of Quantum Chemistry, 2000, 76, 396-406.	1.0	24
48	Synthesis and Aggregation Behavior of mesoâ€Sulfinylporphyrins: Evaluation of Sâ€Chirality Effects on the Selfâ€Organization to Sâ€"Oxoâ€Tethered Cofacial Porphyrin Dimers. Chemistry - an Asian Journal, 2007, 2, 1417-1429.	1.7	24
49	Effect of Molecular Orientational Correlations on Solvation Free Energy Computed by Reference Interaction Site Model Theory. Journal of Chemical Information and Modeling, 2019, 59, 3770-3781.	2.5	24
50	Retroâ€Dielsâ€"Alder Approach to the Synthesis of Ï€â€Expanded Azuliporphyrins and Their Porphyrinoid Aromaticity. Chemistry - A European Journal, 2012, 18, 12854-12863.	1.7	21
51	N,S,Pâ€Hybrid Donorâ€"Ï€â€"Acceptor Organic Dyes for Dyeâ€Sensitized Solar Cell: Synthesis, Optical Properties, and Photovoltaic Performances. Heteroatom Chemistry, 2014, 25, 533-547.	0.4	21
52	Redox switchable 19Ï€ and 18Ï€ 5,10,20-triaryl-5,15-diazaporphyrinoidâ€"nickel(II) complexes. Journal of Porphyrins and Phthalocyanines, 2018, 22, 542-551.	0.4	21
53	Solvent effect on the absorption spectra of coumarin 120 in water: A combined quantum mechanical and molecular mechanical study. Journal of Chemical Physics, 2011, 134, 014501.	1.2	18
54	Optical, Electrochemical, and Magnetic Properties of Pyrroleâ€and Thiopheneâ€Bridged 5,15â€Diazaporphyrin Dimers. Chemistry - A European Journal, 2015, 21, 2003-2010.	1.7	18

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55	Synthesis of Redoxâ€switchable 5,15â€Dialkylâ€10,20â€diarylâ€5,15â€diazaporphyrins and Diversification of their Nâ€Alkyl Groups. Asian Journal of Organic Chemistry, 2019, 8, 352-355.	1.3	17
56	9,9â€²-Anthryl-anthroxyl radicals: strategic stabilization of highly reactive phenoxyl radicals. Chemical Communications, 2015, 51, 6734-6737.	2.2	16
57	Nitrogenâ€Bridged Metallodiazaporphyrin Dimers: Synergistic Effects of Nitrogen Bridges and mesoâ€Nitrogen Atoms on Structure and Properties. Chemistry - an Asian Journal, 2017, 12, 816-821.	1.7	15
58	Size-dependent adsorption sites in a Prussian blue nanoparticle: A 3D-RISM study. Chemical Physics Letters, 2017, 684, 117-125.	1.2	15
59	Direct and Regioselective Amination of Î²â€Unsubstituted 5,15â€Diazaporphyrins with Amines: A Convenient Route to Nearâ€Infraredâ€Responsive Diazaporphyrin Sensitizers. Angewandte Chemie - International Edition, 2018, 57, 3797-3800.	7.2	15
60	Recent advances in ab initio, density functional theory, and relativistic electronic structure theory. , 2005, , 507-557.		14
61	Research activities of the theoretical chemistry group at the University of Tokyo. Computational and Theoretical Chemistry, 2001, 573, 91-128.	1.5	13
62	Selective Catalytic Reduction of Nitric Oxide by Ammonia:Â The Activation Mechanism. Journal of Physical Chemistry B, 2004, 108, 12264-12266.	1.2	13
63	Lowâ€lying excited states of 7â€aminocoumarin derivatives: A theoretical study. International Journal of Quantum Chemistry, 2009, 109, 1940-1949.	1.0	13
64	Synthesis and Photophysical Properties of Two Diazaporphyrinâ€“Porphyrin Hetero Dimers in Polar and Nonpolar Solutions. Journal of Physical Chemistry B, 2015, 119, 7328-7337.	1.2	13
65	Stability of multiply charged anions of lanthanide hexafluorides LnF62â^' and LnF63â^' (Ln=Ce to Lu). Computational and Theoretical Chemistry, 2001, 537, 107-115.	1.5	12
66	Internal rotation of methyl group in 2- and 1-methylanthracene studied by electronic spectroscopy and DFT calculations. Chemical Physics, 2005, 316, 178-184.	0.9	12
67	Electronic structure of LaO based on frozen-core four-component relativistic multiconfigurational quasidegenerate perturbation theory. Journal of Chemical Physics, 2010, 132, 124310.	1.2	12
68	Solvatochromism and preferential solvation of Brooker's merocyanine in waterâ€“methanol mixtures. Journal of Computational Chemistry, 2017, 38, 2411-2419.	1.5	12
69	Doubly Strapped Redox-Switchable 5,10,15,20-Tetraaryl-5,15-diazaporphyrinoids: Promising Platforms for the Evaluation of Paratropic and Diatropic Ring-Current Effects. Journal of Organic Chemistry, 2021, 86, 2283-2296.	1.7	12
70	Fluorescence and photoinversion reactions in solutions of chiral diaryl sulfoxides with various sizes of aromatic rings. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 122, 161-168.	2.0	11
71	Multireference MÃ¸llerâ€“Plesset perturbation theory using spin-dependent orbital energies. Chemical Physics Letters, 2001, 336, 529-535.	1.2	11
72	Electronic structure of CeF from frozen-core four-component relativistic multiconfigurational quasidegenerate perturbation theory. Journal of Chemical Physics, 2008, 128, 214901.	1.2	11

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73	Low-Lying Excited States of C120 and C151: A Multireference Perturbation Theory Study. Journal of Physical Chemistry A, 2010, 114, 12363-12368.	1.1	11
74	Comparison of electronic effects of Î²-aryl substituents on optical and electrochemical properties of 5,15-diazaporphyrin Ï€-systems. Journal of Porphyrins and Phthalocyanines, 2015, 19, 775-785.	0.4	11
75	A computational scheme of pK_a values based on the three-dimensional reference interaction site model self-consistent field theory coupled with the linear fitting correction scheme. Physical Chemistry Chemical Physics, 2018, 20, 27272-27279.	1.3	11
76	The Most Stable Structure of SiC3Studied by Multireference Perturbation Theory with General Multiconfiguration Self-Consistent Field Reference Functionsâ€. Journal of Physical Chemistry A, 2004, 108, 3064-3067.	1.1	10
77	A combined quantum mechanical and molecular mechanical method using modified generalized hybrid orbitals: implementation for electronic excited states. Physical Chemistry Chemical Physics, 2011, 13, 11731.	1.3	10
78	The ion dependence of carbohydrate binding of CBM36: an MD and 3D-RISM study. Journal of Physics Condensed Matter, 2016, 28, 344005.	0.7	10
79	Î²-Functionalization of 5,15-Diazaporphyrins with Phosphorus, Oxygen, and Sulfur-Containing Substituents. Bulletin of the Chemical Society of Japan, 2018, 91, 1264-1266.	2.0	10
80	A model two-dimensional potential for internal rotation of 9-methylanthracene studied by electronic spectroscopy and DFT calculations. Chemical Physics, 2006, 328, 190-196.	0.9	9
81	Remarkable suppression of the excited-state double-proton transfer in the 7-azaindole dimer due to substitution of the dimethylamino group studied by electronic spectroscopy in the gas phase. Chemical Physics Letters, 2007, 443, 194-198.	1.2	9
82	Electronic Structure of LaF+ and LaF from Frozen-Core Four-Component Relativistic Multiconfigurational Quasidegenerate Perturbation Theory. Journal of Physical Chemistry A, 2008, 112, 2683-2692.	1.1	9
83	Theoretical analysis of complex formation of p-carboxybenzeneboronic acid with a monosaccharide. Journal of Molecular Liquids, 2016, 217, 93-98.	2.3	9
84	Synthesis and properties of redoxâ€switchable zinc complexes of 10,15,20â€triarylâ€15â€azaâ€5â€oxaporphyrin. Heteroatom Chemistry, 2018, 29, .	0.4	9
85	RECENT ADVANCES IN ELECTRONIC STRUCTURE THEORY. Journal of Theoretical and Computational Chemistry, 2002, 01, 109-136.	1.8	8
86	A Microscopic Model for Helical Twisting Power by the Optical Isomers of an Octahedral Metal Complex. Japanese Journal of Applied Physics, 2005, 44, 4067-4072.	0.8	8
87	Three-Dimensional Reference Interaction Site Model Self-Consistent Field Study of the Electronic Structure of [Cr(H₂O)₆]³⁺ in Aqueous Solution. Journal of Physical Chemistry A, 2013, 117, 8314-8322.	1.1	8
88	Theoretical analysis of salt effect on intramolecular proton transfer reaction of glycine in aqueous NaCl solution. Journal of Molecular Liquids, 2014, 200, 32-37.	2.3	8
89	Unsymmetrically Substituted Donorâ€“Ï€â€“Acceptorâ€Type 5,15â€Diazaporphyrin Sensitizers: Synthesis, Optical and Photovoltaic Properties. ChemPlusChem, 2017, 82, 695-704.	1.3	8
90	ANALYTIC ENERGY GRADIENTS FOR SECOND-ORDER MULTIREFERENCE PERTURBATION THEORY. Recent Advances in Computational, 1999, , 131-160.	0.8	7

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91	Molecular spinors suitable for fourâ€component relativistic correlation calculations: Studies of LaF⁺ and LaF using multiconfigurational quasiâ€degenerate perturbation theory. International Journal of Quantum Chemistry, 2009, 109, 1898-1904.	1.0	7
92	Solvent effect on excited states of merocyanines: A theoretical study using the RISMâ€“SCF method. Chemical Physics Letters, 2013, 583, 69-73.	1.2	7
93	Three-dimensional reference interaction site model self-consistent field analysis of solvent and substituent effects on the absorption spectra of Brooker's merocyanine. Journal of Computational Chemistry, 2015, 36, 1655-1663.	1.5	7
94	Theoretical analysis of co-solvent effect on the proton transfer reaction of glycine in a waterâ€“acetonitrile mixture. Journal of Chemical Physics, 2015, 142, 204103.	1.2	7
95	Recent Developments of Computational Methods for pKa Prediction Based on Electronic Structure Theory with Solvation Models. J, 2021, 4, 849-864.	0.6	7
96	Efficient and stable method of searching for optimum structures of molecules containing cyclic parts. Chemical Physics Letters, 1991, 177, 458-462.	1.2	6
97	Complete active space valence bond method applied to chemical reactions. Computational and Theoretical Chemistry, 1999, 461-462, 55-69.	1.5	6
98	On the performance of diagrammatic complete active space perturbation theory. Journal of Chemical Physics, 2000, 113, 7773-7778.	1.2	6
99	Complete active space valence bond (CASVB) method and its application to chemical reactions. Theoretical and Computational Chemistry, 2002, , 55-77.	0.2	6
100	Parallel Implementation of the Four-Component Relativistic Quasidegenerate Perturbation Theory with General Multiconfigurational Reference Functions. Journal of Chemical Theory and Computation, 2011, 7, 998-1005.	2.3	6
101	Three-Dimensional Reference Interaction Site Model Self-Consistent Field Study on the Coordination Structure and Excitation Spectra of Cu(II)â€“Water Complexes in Aqueous Solution. Journal of Physical Chemistry A, 2019, 123, 3344-3354.	1.1	6
102	Distinct ionic adsorption sites in defective Prussian blue: a 3D-RISM study. Physical Chemistry Chemical Physics, 2019, 21, 22569-22576.	1.3	6
103	Theoretical study of the Ï€â†'Ï€* excited states of linear polyenes: The energy gap between 11Bu+ and 21Agâ^' states and their character. , 1998, 66, 157.		6
104	Implementation of state-averaged MCSCF method to RISM- and 3D-RISM-SCF schemes. Chemical Physics Letters, 2019, 730, 179-185.	1.2	5
105	Synthesis and optical, magnetic, and electrochemical properties of 5,10,15,20-tetraaryl-5,15-diazaporphyrin â€" tertiary amine conjugates. Journal of Porphyrins and Phthalocyanines, 2020, 24, 286-297.	0.4	5
106	Relativistic two-electron repulsion operator formulas for the Douglasâ€“Kroll method. Chemical Physics Letters, 2021, 762, 138158.	1.2	5
107	Synthesis, Optical Properties, and Electrochemical Behavior of 5,10,15,20â€Tetraarylâ€5,15â€diazaporphyrinâ€Amine Hybrids. ChemPlusChem, 2021, 86, 1476-1486.	1.3	5
108	A computational method to simulate global conformational changes of proteins induced by cosolvent. Journal of Computational Chemistry, 2021, 42, 552-563.	1.5	4

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109	Recent Advances in Multireference-Based Perturbation Theory. Bulletin of the Korean Chemical Society, 2003, 24, 812-816.	1.0	4
110	Copper(II) Complexes of 10,20-Diaryl-5,15-diazaporphyrin: Alternative Synthesis, Excited State Dynamics, and Substituent Effect on the 1O2-Generation Efficiency. Bulletin of the Chemical Society of Japan, 2022, 95, 427-432.	2.0	4
111	Computational Analysis of the SARS-CoV-2 RBDâ€“ACE2-Binding Process Based on MD and the 3D-RISM Theory. Journal of Chemical Information and Modeling, 2022, 62, 2889-2898.	2.5	4
112	Maximum radius of convergence perturbation theory: test calculations on Be, Ne, H 2 and HF. Theoretical Chemistry Accounts, 2003, 110, 185-189.	0.5	3
113	Heavy mass effect on excited-state double-proton transfer in the 7-azaindole dimer by Cl substitution. Chemical Physics Letters, 2007, 441, 176-180.	1.2	3
114	9â€(Diphenylphosphoryl)â€10â€(phenylethynyl)anthracene Derivatives: Synthesis and Implications for the Substituent and Solvent Effects on the Lightâ€Emitting Properties. ChemPhotoChem, 2022, 6, .	1.5	3
115	Convergence property of multireference many-body perturbation theory analyzed by the use of a norm of effective Hamiltonian. Theoretica Chimica Acta, 1993, 86, 369-377.	0.9	2
116	A non-orthogonal Kohn-Sham method using partially fixed molecular orbitals. Theoretical Chemistry Accounts, 2003, 110, 328-337.	0.5	2
117	Direct and Regioselective Amination of Î²â€Unsubstituted 5,15â€Diazaporphyrins with Amines: A Convenient Route to Nearâ€Infraredâ€Responsive Diazaporphyrin Sensitizers. Angewandte Chemie, 2018, 130, 3859-3862.	1.6	2
118	Valence-bond description of chemical reactions on Bornâ€“Oppenheimer molecular dynamics trajectories. Journal of Chemical Physics, 2009, 130, 154309.	1.2	1
119	Solvent Effect on the Fluorescence Spectra of Coumarin 120 in Water: A Combined Quantum Mechanical and Molecular Mechanical Study. Journal of the Physical Society of Japan, 2012, 81, SA024.	0.7	1
120	New algorithm for electron repulsion integrals oriented to the general contraction scheme. , 2000, 76, 396.		1
121	New algorithm for electron repulsion integrals oriented to the general contraction scheme. , 2000, 76, 396.		1
122	New algorithm for electron repulsion integrals oriented to the general contraction scheme. International Journal of Quantum Chemistry, 2000, 76, 396.	1.0	1
123	Study on Chemical Reactivity Control of Liquid Sodium: Development of Nano-Fluid and Its Property and Applicability to FBR Plant. , 2008, , .		0