

Shigenori Tanaka

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5582653/shigenori-tanaka-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

143
papers

3,118
citations

33
h-index

48
g-index

162
ext. papers

3,419
ext. citations

3.2
avg, IF

5.35
L-index

#	Paper	IF	Citations
143	Electron-correlated fragment-molecular-orbital calculations for biomolecular and nano systems. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 10310-44	3.6	200
142	Molecular interactions between estrogen receptor and its ligand studied by the ab initio fragment molecular orbital method. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16102-10	3.4	106
141	Large scale FMO-MP2 calculations on a massively parallel-vector computer. <i>Chemical Physics Letters</i> , 2008 , 457, 396-403	2.5	100
140	Intra- and intermolecular interactions between cyclic-AMP receptor protein and DNA: ab initio fragment molecular orbital study. <i>Journal of Computational Chemistry</i> , 2006 , 27, 948-60	3.5	97
139	Thermodynamics and Correlational Properties of Finite-Temperature Electron Liquids in the Singwi-Tosi-Land-Sjlander Approximation. <i>Journal of the Physical Society of Japan</i> , 1986 , 55, 2278-2289	1.5	90
138	A configuration analysis for fragment interaction. <i>Chemical Physics Letters</i> , 2005 , 410, 247-253	2.5	84
137	Generalized viscoelastic theory of the glass transition for strongly coupled, classical, one-component plasmas. <i>Physical Review Letters</i> , 1986 , 56, 2815-2818	7.4	73
136	Higher-order correlated calculations based on fragment molecular orbital scheme. <i>Theoretical Chemistry Accounts</i> , 2011 , 130, 515-530	1.9	64
135	Fragment interaction analysis based on local MP2. <i>Theoretical Chemistry Accounts</i> , 2007 , 118, 937-945	1.9	57
134	Development of the four-body corrected fragment molecular orbital (FMO4) method. <i>Chemical Physics Letters</i> , 2012 , 523, 128-133	2.5	52
133	Fragment Molecular Orbital Based Interaction Analyses on COVID-19 Main Protease - Inhibitor N3 Complex (PDB ID: 6LU7). <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 3593-3602	6.1	50
132	Fragment molecular orbital calculations on large scale systems containing heavy metal atom. <i>Chemical Physics Letters</i> , 2006 , 427, 159-165	2.5	48
131	Spin-dependent correlations and thermodynamic functions for electron liquids at arbitrary degeneracy and spin polarization. <i>Physical Review B</i> , 1989 , 39, 1036-1051	3.3	48
130	Parametrized equation of state for electron liquids in the Singwi-Tosi-Land-Sjlander approximation. <i>Physical Review A</i> , 1985 , 32, 1896-1899	2.6	48
129	Theoretical analysis of binding specificity of influenza viral hemagglutinin to avian and human receptors based on the fragment molecular orbital method. <i>Computational Biology and Chemistry</i> , 2008 , 32, 198-211	3.6	47
128	Acceleration of fragment molecular orbital calculations with Cholesky decomposition approach. <i>Chemical Physics Letters</i> , 2010 , 490, 84-89	2.5	46
127	Ab initio fragment molecular orbital study of molecular interactions in liganded retinoid X receptor: specification of residues associated with ligand inducible information transmission. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 12081-94	3.4	46

126	Possibility of mutation prediction of influenza hemagglutinin by combination of hemadsorption experiment and quantum chemical calculation for antibody binding. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4991-4	3.4	45
125	Incorporation of solvation effects into the fragment molecular orbital calculations with the Poisson-Boltzmann equation. <i>Chemical Physics Letters</i> , 2010 , 500, 116-119	2.5	45
124	Large-scale FMO-MP3 calculations on the surface proteins of influenza virus, hemagglutinin (HA) and neuraminidase (NA). <i>Chemical Physics Letters</i> , 2010 , 493, 346-352	2.5	42
123	Three- and four-body corrected fragment molecular orbital calculations with a novel subdividing fragmentation method applicable to structure-based drug design. <i>Journal of Molecular Graphics and Modelling</i> , 2013 , 41, 31-42	2.8	41
122	Visualization analysis of inter-fragment interaction energies of CRP-cAMP-DNA complex based on the fragment molecular orbital method. <i>Biophysical Chemistry</i> , 2007 , 130, 1-9	3.5	41
121	Dynamic theory of correlations in strongly coupled, classical one-component plasmas: Glass transition in the generalized viscoelastic formalism. <i>Physical Review A</i> , 1987 , 35, 4743-4754	2.6	41
120	DNA and estrogen receptor interaction revealed by fragment molecular orbital calculations. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 9621-7	3.4	40
119	Accuracy of fragmentation in ab initio calculations of hydrated sodium cation. <i>Chemical Physics Letters</i> , 2009 , 478, 295-300	2.5	38
118	Ab initio fragment molecular orbital study of molecular interactions between liganded retinoid X receptor and its coactivator; part II: influence of mutations in transcriptional activation function 2 activating domain core on the molecular interactions. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 1986-98	2.8	37
117	Statistical correction to effective interactions in the fragment molecular orbital method. <i>Chemical Physics Letters</i> , 2013 , 556, 272-277	2.5	36
116	Ab initio quantum-chemical study on emission spectra of bioluminescent luciferases by fragment molecular orbital method. <i>Chemical Physics Letters</i> , 2009 , 472, 118-123	2.5	36
115	Fragment molecular orbital calculations on red fluorescent proteins (DsRed and mFruits). <i>Journal of Physical Chemistry B</i> , 2009 , 113, 1153-61	3.4	36
114	Electron Transfer Model for the Electric Field Effect on Quantum Yield of Charge Separation in Bacterial Photosynthetic Reaction Centers. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 5031-5045	3.4	36
113	Fragment molecular orbital calculations under periodic boundary condition. <i>Chemical Physics Letters</i> , 2011 , 506, 112-116	2.5	35
112	Fragment Molecular Orbital Calculations with Implicit Solvent Based on the Poisson-Boltzmann Equation: II. Protein and Its Ligand-Binding System Studies. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 957-973	3.4	34
111	Developments and applications of ABINIT-MP software based on the fragment molecular orbital method 2006 , 39-52		33
110	Application of the fragment molecular orbital method for determination of atomic charges on polypeptides. II. Towards an improvement of force fields used for classical molecular dynamics simulations. <i>Chemical Physics Letters</i> , 2009 , 467, 417-423	2.5	32
109	Ab initio fragment molecular orbital study of molecular interactions between liganded retinoid X receptor and its coactivator: roles of helix 12 in the coactivator binding mechanism. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 3525-33	3.4	32

108	Fragment molecular orbital calculations on red fluorescent protein (DsRed). <i>Chemical Physics Letters</i> , 2007 , 433, 360-367	2.5	31
107	AutoDock-GIST: Incorporating Thermodynamics of Active-Site Water into Scoring Function for Accurate Protein-Ligand Docking. <i>Molecules</i> , 2016 , 21,	4.8	31
106	Fragment Molecular Orbital Calculations with Implicit Solvent Based on the Poisson-Boltzmann Equation: Implementation and DNA Study. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 4457-4471	3.4	28
105	Application of the fragment molecular orbital method for determination of atomic charges on polypeptides. <i>Chemical Physics Letters</i> , 2007 , 449, 329-335	2.5	28
104	Modeling of peptide-silica interaction based on four-body corrected fragment molecular orbital (FMO4) calculations. <i>Chemical Physics Letters</i> , 2013 , 566, 25-31	2.5	27
103	An application of fragment interaction analysis based on local MP2. <i>Chemical Physics Letters</i> , 2008 , 463, 189-194	2.5	27
102	Dynamic polarizability calculation with fragment molecular orbital scheme. <i>Chemical Physics Letters</i> , 2006 , 418, 418-422	2.5	27
101	Prediction of probable mutations in influenza virus hemagglutinin protein based on large-scale ab initio fragment molecular orbital calculations. <i>Journal of Molecular Graphics and Modelling</i> , 2011 , 30, 110-9	2.8	26
100	Theoretical Analysis of Activity Cliffs among Benzofuranone-Class Pim1 Inhibitors Using the Fragment Molecular Orbital Method with Molecular Mechanics Poisson-Boltzmann Surface Area (FMO+MM-PBSA) Approach. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 2996-3010	6.1	25
99	Roles of K151 and D180 in L-2-haloacid dehalogenase from <i>Pseudomonas</i> sp. YL: analysis by molecular dynamics and ab initio fragment molecular orbital calculations. <i>Journal of Computational Chemistry</i> , 2009 , 30, 2625-34	3.5	24
98	Effective Static Approximation: A Fast and Reliable Tool for Warm-Dense Matter Theory. <i>Physical Review Letters</i> , 2020 , 125, 235001	7.4	24
97	Strongly coupled electron liquid: Ab initio path integral Monte Carlo simulations and dielectric theories. <i>Physical Review B</i> , 2020 , 101,	3.3	22
96	Thermodynamic properties of water molecules in the presence of cosolute depend on DNA structure: a study using grid inhomogeneous solvation theory. <i>Nucleic Acids Research</i> , 2015 , 43, 10114-25	20.1	22
95	Counterpoise-corrected interaction energy analysis based on the fragment molecular orbital scheme. <i>Chemical Physics Letters</i> , 2011 , 509, 67-71	2.5	22
94	Molecular recognition of SARS-CoV-2 spike glycoprotein: quantum chemical hot spot and epitope analyses. <i>Chemical Science</i> , 2021 , 12, 4722-4739	9.4	22
93	Cosolvent-Based Molecular Dynamics for Ensemble Docking: Practical Method for Generating Druggable Protein Conformations. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 742-756	6.1	21
92	Fragment Molecular Orbital (FMO) and FMO-MO Calculations of DNA: Accuracy Validation of Energy and Interfragment Interaction Energy. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 1328-1337	0.3	21
91	Correlational and thermodynamic properties of finite-temperature electron liquids in the hypernetted-chain approximation. <i>Journal of Chemical Physics</i> , 2016 , 145, 214104	3.9	21

90	Ab initio Path Integral Molecular Dynamics Based on Fragment Molecular Orbital Method. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 104723	1.5	20
89	Nuclear quantum effects on electron transfer reactions in DNA hairpins. <i>Physical Review E</i> , 2003 , 68, 031905	2.4	20
88	DENSITY FUNCTIONAL CALCULATIONS ON THE INTERACTION BETWEEN CATABOLITE ACTIVATOR PROTEIN AND CYCLIC AMP USING THE FRAGMENT MOLECULAR ORBITAL METHOD. <i>Journal of Theoretical and Computational Chemistry</i> , 2005 , 04, 183-195	1.8	20
87	Ion-Density Correlations and Enhancement of Thermonuclear Reaction Rate in Dense, Inertially Confined Fusion Plasmas. <i>Journal of the Physical Society of Japan</i> , 1984 , 53, 2039-2048	1.5	20
86	Stopping Power of Degenerate Electron Liquid at Metallic Densities. <i>Journal of the Physical Society of Japan</i> , 1985 , 54, 2537-2542	1.5	20
85	Computational Analysis of the Interaction Energies between Amino Acid Residues of the Measles Virus Hemagglutinin and Its Receptors. <i>Viruses</i> , 2018 , 10,	6.2	19
84	Effects of salt addition on strength and dynamics of hydrophobic interactions. <i>Chemical Physics Letters</i> , 2007 , 434, 42-48	2.5	19
83	Theory of interparticle correlations in dense, high-temperature plasmas. VIII. Shear viscosity. <i>Physical Review A</i> , 1986 , 34, 4163-4170	2.6	19
82	Protein-ligand docking using fitness learning-based artificial bee colony with proximity stimuli. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 16412-7	3.6	18
81	Novel type of virtual ligand screening on the basis of quantum-chemical calculations for protein-ligand complexes and extended clustering techniques. <i>Computational and Theoretical Chemistry</i> , 2015 , 1061, 12-22	2	18
80	Development of an automated fragment molecular orbital (FMO) calculation protocol toward construction of quantum mechanical calculation database for large biomolecules. <i>Chem-Bio Informatics Journal</i> , 2019 , 19, 5-18	0.8	18
79	Charge clamps of lysines and hydrogen bonds play key roles in the mechanism to fix helix 12 in the agonist and antagonist positions of estrogen receptor: intramolecular interactions studied by the ab initio fragment molecular orbital method. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 4993-5008	3.4	18
78	Application of singular value decomposition to the inter-fragment interaction energy analysis for ligand screening. <i>Computational and Theoretical Chemistry</i> , 2018 , 1132, 23-34	2	17
77	Comparative characterization of short monomeric polyglutamine peptides by replica exchange molecular dynamics simulation. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7056-61	3.4	17
76	Towards good correlation between fragment molecular orbital interaction energies and experimental IC for ligand binding: A case study of p38 MAP kinase. <i>Computational and Structural Biotechnology Journal</i> , 2018 , 16, 421-434	6.8	17
75	Interaction energy analysis on specific binding of influenza virus hemagglutinin to avian and human sialosaccharide receptors: importance of mutation-induced structural change. <i>Journal of Molecular Graphics and Modelling</i> , 2014 , 53, 48-58	2.8	16
74	Affinity of molecular ions for DNA structures is determined by solvent-accessible surface area. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 9583-94	3.4	16
73	Newly characterized interaction stabilizes DNA structure: oligoethylene glycols stabilize G-quadruplexes CH π -interactions. <i>Nucleic Acids Research</i> , 2017 , 45, 7021-7030	20.1	16

72	Explicit solvation modulates intra- and inter-molecular interactions within DNA: Electronic aspects revealed by the ab initio fragment molecular orbital (FMO) method. <i>Computational and Theoretical Chemistry</i> , 2015 , 1054, 29-37	2	16
71	Antigen-Antibody interactions of influenza virus hemagglutinin revealed by the fragment molecular orbital calculation. <i>Theoretical Chemistry Accounts</i> , 2011 , 130, 1197-1202	1.9	16
70	Fragment molecular orbital (FMO) study on stabilization mechanism of neuro-oncological ventral antigen (NOVA)RNA complex system. <i>Computational and Theoretical Chemistry</i> , 2010 , 962, 45-55		16
69	Accuracy of the fragment molecular orbital (FMO) calculations for DNA: Total energy, molecular orbital, and inter-fragment interaction energy. <i>Computational and Theoretical Chemistry</i> , 2014 , 1034, 7-16	2	15
68	Fragmentation Method Combined with Quantum Monte Carlo Calculations. <i>Journal of the Physical Society of Japan</i> , 2007 , 76, 064301	1.5	15
67	Application of fragment molecular orbital scheme to silicon-containing systems. <i>Chemical Physics Letters</i> , 2006 , 430, 361-366	2.5	15
66	Theory of nonadiabatic electron transfer at electrode/liquid interfaces: Role of quantum effects. <i>Journal of Chemical Physics</i> , 1999 , 111, 11117-11137	3.9	14
65	Study of the aggregation mechanism of polyglutamine peptides using replica exchange molecular dynamics simulations. <i>Journal of Molecular Modeling</i> , 2013 , 19, 1627-39	2	13
64	Sialic acid recognition of the pandemic influenza 2009 H1N1 virus: binding mechanism between human receptor and influenza hemagglutinin. <i>Protein and Peptide Letters</i> , 2011 , 18, 530-9	1.9	12
63	Meteorite Impact-Induced Rapid NH Production on Early Earth: Ab Initio Molecular Dynamics Simulation. <i>Scientific Reports</i> , 2016 , 6, 38953	4.9	12
62	Improved equation of state for finite-temperature spin-polarized electron liquids on the basis of Singwi-Tosi-LandSjlander approximation. <i>Contributions To Plasma Physics</i> , 2017 , 57, 126-136	1.4	11
61	Identification of correlated inter-residue interactions in protein complex based on the fragment molecular orbital method. <i>Journal of Molecular Graphics and Modelling</i> , 2020 , 100, 107650	2.8	11
60	FMODB: The World's First Database of Quantum Mechanical Calculations for Biomacromolecules Based on the Fragment Molecular Orbital Method. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 777-794	6.1	11
59	Interaction analyses of SARS-CoV-2 spike protein based on fragment molecular orbital calculations.. <i>RSC Advances</i> , 2021 , 11, 3272-3279	3.7	11
58	Statistical interaction analyses between SARS-CoV-2 main protease and inhibitor N3 by combining molecular dynamics simulation and fragment molecular orbital calculation. <i>Applied Physics Express</i> , 2021 , 14, 027003	2.4	10
57	Local thermodynamics of the water molecules around single- and double-stranded DNA studied by grid inhomogeneous solvation theory. <i>Chemical Physics Letters</i> , 2016 , 660, 250-255	2.5	9
56	Ab initio path integral Monte Carlo simulations for water trimer with electron correlation effects. <i>Computational and Theoretical Chemistry</i> , 2012 , 997, 7-13	2	9
55	Comparison of binding affinity evaluations for FKBP ligands with state-of-the-art computational methods: FMO, QM/MM, MM-PB/SA and MP-CAFE approaches. <i>Chem-Bio Informatics Journal</i> , 2010 , 10, 32-45	0.8	9

54	ATP Converts ADP Oligomer into Off-Pathway Species by Making Contact with Its Backbone Atoms Using Hydrophobic Adenosine. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 9922-9933	3.4	9
53	A significant role of Arg41 residue in the enzymatic reaction of haloacid dehalogenase I-DEX YL studied by QM/MM method. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 110, 23-31		8
52	Analysis of electron-transfer rate constant in condensed media with inclusion of inelastic tunneling and nuclear quantum effects. <i>Physical Review E</i> , 2010 , 81, 027101	2.4	8
51	Modulation of excitation energy transfer by conformational oscillations in biomolecular systems. <i>Chemical Physics Letters</i> , 2011 , 508, 139-143	2.5	8
50	Molecular mechanics and all-electron fragment molecular orbital calculations on mutated polyglutamine peptides. <i>Computational and Theoretical Chemistry</i> , 2010 , 944, 12-20		8
49	Ab initio study of molecular interactions in higher plant and <i>Galdieria partita</i> Rubiscos with the fragment molecular orbital method. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 361, 367-72	3.4	8
48	Dynamic Cooperativity of Ligand-Residue Interactions Evaluated with the Fragment Molecular Orbital Method. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 6501-6512	3.4	8
47	Statistical-Mechanical Theory of Cold Nuclear Fusion in Metal Hydrides. <i>Journal of the Physical Society of Japan</i> , 1990 , 59, 1333-1340	1.5	7
46	Current Status of ABINIT-MP as a FMO Program and Related Works with Machine Learning. <i>Journal of Computer Chemistry Japan</i> , 2017 , 16, 119-122	0.2	6
45	Theoretical prediction and experimental verification on enantioselectivity of haloacid dehalogenase I-DEX YL with chloropropionate. <i>Chemical Physics Letters</i> , 2015 , 623, 101-107	2.5	6
44	Taking Water into Account with the Fragment Molecular Orbital Method. <i>Methods in Molecular Biology</i> , 2020 , 2114, 105-122	1.4	6
43	Systems approach to excitation-energy and electron transfer reaction networks in photosystem II complex: model studies for chlorophyll a fluorescence induction kinetics. <i>Journal of Theoretical Biology</i> , 2015 , 380, 220-37	2.3	4
42	Reduced minimum model for the photosynthetic induction processes in photosystem I. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 160, 364-75	6.7	4
41	Structural transition of solvated H-Ras/GTP revealed by molecular dynamics simulation and local network entropy. <i>Journal of Molecular Graphics and Modelling</i> , 2017 , 77, 51-63	2.8	4
40	New Modified Deoxythymine with Dibranching Tetraethylene Glycol Stabilizes G-Quadruplex Structures. <i>Molecules</i> , 2020 , 25,	4.8	3
39	Classical density functional calculation of radial distribution functions of liquid water. <i>Chemical Physics</i> , 2014 , 430, 18-22	2.3	3
38	Triplet correlations and bridge functions in classical density functional theory for liquid water. <i>Chemical Physics Letters</i> , 2013 , 572, 38-43	2.5	3
37	Excitation energy transfer modulated by oscillating electronic coupling of a dimeric system embedded in a molecular environment. <i>Physical Review E</i> , 2012 , 86, 021914	2.4	3

36	Derivation of extremely slow dynamics of protein motion based on entropy invariance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 1280-1282	2.3	3
35	Application of the FMO Method to Specific Molecular Recognition of Biomacromolecules 2009 , 133-170		3
34	Fragment molecular orbital calculations for biomolecules. <i>Current Opinion in Structural Biology</i> , 2021 , 72, 127-134	8.1	3
33	Comparative study on model parameter evaluations for the energy transfer dynamics in Fenna-Matthews-Dixon complex. <i>Chemical Physics</i> , 2020 , 539, 110903	2.3	3
32	Diffusion Monte Carlo study on temporal evolution of entropy and free energy in nonequilibrium processes. <i>Journal of Chemical Physics</i> , 2016 , 144, 094103	3.9	3
31	Non-Equilibrium Quantum Brain Dynamics: Super-Radiance and Equilibration in 21 Dimensions+. <i>Entropy</i> , 2019 , 21, 1066	2.8	3
30	Ab initio molecular dynamics study of prebiotic production processes of organic compounds at meteorite impacts on ocean. <i>Journal of Computational Chemistry</i> , 2019 , 40, 349-359	3.5	3
29	Fragment molecular orbital based interaction analyses on complexes between SARS-CoV-2 RBD variants and ACE2. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 090901	1.4	3
28	Meteorite impacts on ancient oceans opened up multiple NH ₂ production pathways. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11655-11667	3.6	2
27	Information geometrical characterization of the Onsager-Machlup process. <i>Chemical Physics Letters</i> , 2017 , 689, 152-155	2.5	2
26	Hierarchical coarse-graining model for photosystem II including electron and excitation-energy transfer processes. <i>BioSystems</i> , 2014 , 117, 15-29	1.9	2
25	Variational Quantum Monte Carlo with Inclusion of Orbital Correlations. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 075001	1.5	2
24	Collective residue interactions in trimer complexes of SARS-CoV-2 spike proteins analyzed by fragment molecular orbital method. <i>Applied Physics Express</i> , 2022 , 15, 017001	2.4	2
23	Molecular Recognition of SARS-CoV-2 Spike Glycoprotein: Quantum Chemical Hot Spot and Epitope Analyses		2
22	Machine learning prediction of inter-fragment interaction energies between ligand and amino-acid residues on the fragment molecular orbital calculations for Janus kinase inhibitor complex. <i>Chemical Physics Letters</i> , 2020 , 757, 137883	2.5	2
21	Non-equilibrium Quantum Brain Dynamics II: Formulation in 3+1 dimensions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021 , 567, 125706	3.3	2
20	Four-electron model for singlet and triplet excitation energy transfers with inclusion of coherence memory, inelastic tunneling and nuclear quantum effects. <i>Chemical Physics</i> , 2016 , 474, 18-24	2.3	2
19	The ABINIT-MP Program 2021 , 53-67		2

18	Nanoscale Quantum Thermal Conductance at Water Interface: GreenQ Function Approach Based on One-Dimensional Phonon Model. <i>Molecules</i> , 2020 , 25,	4.8	1
17	Renormalization-Group Inspired Approach to Vibrational Energy Transfer in Protein. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 033801	1.5	1
16	Remarkable Suppression of AlProtomer-Protomer Dissociation Reaction Elucidated by Molecular Dynamics Simulation.. <i>Proteins: Structure, Function and Bioinformatics</i> , 2022 ,	4.2	1
15	Elucidating microscopic events driven by GTP hydrolysis reaction in the Ras-GAP system with semi-reactive molecular dynamics simulations: the alternative role of a phosphate binding loop for mechanical energy storage. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26151-26164	3.6	1
14	Non-Equilibrium Quantum Electrodynamics in Open Systems as a Realizable Representation of Quantum Field Theory of the Brain. <i>Entropy</i> , 2019 , 22,	2.8	1
13	Nonequilibrium quantum brain dynamics. <i>Advances in Quantum Chemistry</i> , 2020 , 82, 159-180	1.4	1
12	Appearance of Thermal Time. <i>Foundations of Physics</i> , 2021 , 51,	1.2	1
11	Reaction Pathway Sampling and Free-Energy Analyses for Multimeric Protein Complex Disassembly by Employing Hybrid Configuration Bias Monte Carlo/Molecular Dynamics Simulation. <i>ACS Omega</i> , 2021 , 6, 4749-4758	3.9	1
10	FMO Drug Design Consortium 2021 , 127-181		1
9	Temperature relaxation in binary hard-sphere mixture system: Molecular dynamics and kinetic theory study. <i>Journal of Chemical Physics</i> , 2020 , 153, 034114	3.9	0
8	Effects of Bridge Functions on Radial Distribution Functions of Liquid Water. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2015 , 7, 152-6	3.5	
7	1P-100 Study of RNA base recognition mechanism by aliphatic surface of RNA-binding protein : Case study of NOVA-RNA complex system(Nucleic acid:Interaction & Complex formation, The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S79	0	
6	1TP5-05 Study of RNA base recognition mechanism by aliphatic surface of RNA-binding protein : Case study of NOVA-RNA complex system(The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S37-S38	0	
5	In silico modeling of PAX8-PPAR γ fusion protein in thyroid carcinoma: influence of structural perturbation by fusion on ligand-binding affinity. <i>Journal of Computer-Aided Molecular Design</i> , 2021 , 35, 629-642	4.2	
4	Density-Matrix Based Scheme of Basis Selection for Linear Combination of Fragment Molecular Orbitals. <i>Journal of the Physical Society of Japan</i> , 2021 , 90, 064301	1.5	
3	Comparison of Various Fragmentation Methods for Quantum Chemical Calculations of Large Molecular Systems 2021 , 15-27		
2	Fragment Molecular Orbital Method as Cluster Expansion 2021 , 3-14		
1	Quantum Brain Dynamics in 2+1 dimensions: Non-equilibrium analysis towards memory formations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022 , 598, 127397	3.3	

