

Samer Gozem

List of Publications by Citations

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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.

45
papers

1,571
citations

21
h-index

39
g-index

56
ext. papers

1,810
ext. citations

10
avg, IF

4.75
L-index

#	Paper	IF	Citations
45	Theory and Simulation of the Ultrafast Double-Bond Isomerization of Biological Chromophores. <i>Chemical Reviews</i> , 2017 , 117, 13502-13565	68.1	160
44	Shape of Multireference, Equation-of-Motion Coupled-Cluster, and Density Functional Theory Potential Energy Surfaces at a Conical Intersection. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3074-84	6.4	132
43	Dynamic Electron Correlation Effects on the Ground State Potential Energy Surface of a Retinal Chromophore Model. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 4069-80	6.4	127
42	Assessment of Approximate Coupled-Cluster and Algebraic-Diagrammatic-Construction Methods for Ground- and Excited-State Reaction Paths and the Conical-Intersection Seam of a Retinal-Chromophore Model. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 5758-81	6.4	99
41	Photoelectron wave function in photoionization: plane wave or Coulomb wave?. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4532-40	6.4	97
40	The molecular mechanism of thermal noise in rod photoreceptors. <i>Science</i> , 2012 , 337, 1225-8	33.3	85
39	Assessment of Density Functional Theory for Describing the Correlation Effects on the Ground and Excited State Potential Energy Surfaces of a Retinal Chromophore Model. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3917-32	6.4	78
38	A study of interstellar aldehydes and enols as tracers of a cosmic ray-driven nonequilibrium synthesis of complex organic molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7727-32	11.5	77
37	Mapping the Excited State Potential Energy Surface of a Retinal Chromophore Model with Multireference and Equation-of-Motion Coupled-Cluster Methods. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 4495-506	6.4	76
36	Conical Intersection and Potential Energy Surface Features of a Model Retinal Chromophore: Comparison of EOM-CC and Multireference Methods. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 284-92	6.4	62
35	Supramolecular Sensors for Opiates and Their Metabolites. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14954-14960	16.4	53
34	Comparison of the isomerization mechanisms of human melanopsin and invertebrate and vertebrate rhodopsins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1714-9	11.5	47
33	Combined Self-Consistent-Field and Spin-Flip Tamm-Dancoff Density Functional Approach to Potential Energy Surfaces for Photochemistry. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 253-8	6.4	41
32	Probing the Photodynamics of Rhodopsins with Reduced Retinal Chromophores. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 839-50	6.4	38
31	Learning from photobiology how to design molecular devices using a computer. <i>Chemical Society Reviews</i> , 2014 , 43, 4019-36	58.5	35
30	Toward an understanding of the retinal chromophore in rhodopsin mimics. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 10053-70	3.4	35
29	Quantum Monte Carlo Treatment of the Charge Transfer and Diradical Electronic Character in a Retinal Chromophore Minimal Model. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 992-1005	6.4	35

28	Molecular bases for the selection of the chromophore of animal rhodopsins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15297-302	11.5	33
27	Ligand influence on the electronic spectra of monocationic copper-bipyridine complexes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 31938-46	3.6	29
26	Origin of Fluorescence in 11-cis Locked Bovine Rhodopsin. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 2559-63	6.4	27
25	Electronic spectra of flavin in different redox and protonation states: a computational perspective on the effect of the electrostatic environment. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16526-16537	3.6	21
24	The ezSpectra suite: An easy-to-use toolkit for spectroscopy modeling. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , e1546	7.9	21
23	A conical intersection controls the deactivation of the bacterial luciferase fluorophore. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9870-5	16.4	19
22	Vacuum ultraviolet photoionization cross section of the hydroxyl radical. <i>Journal of Chemical Physics</i> , 2018 , 148, 184302	3.9	15
21	Fluorescence-Based Assay for Carbonic Anhydrase Inhibitors. <i>CheM</i> , 2017 , 2, 271-282	16.2	14
20	Electrostatic Spectral Tuning Maps for Biological Chromophores. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4813-4824	3.4	14
19	Probing the Electronic Structure of Bulk Water at the Molecular Length Scale with Angle-Resolved Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5162-5170	6.4	14
18	Photoelectron Spectroscopy Study of Quinonimides. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11138-11148	16.4	14
17	Fluorescence Properties of Flavin Semiquinone Radicals in Nitronate Monooxygenase. <i>ChemBioChem</i> , 2019 , 20, 1646-1652	3.8	13
16	Electronic Spectra of Tris(2,2'Sbipyridine)-M(II) Complex Ions in Vacuo (M = Fe and Os). <i>Inorganic Chemistry</i> , 2017 , 56, 7029-7037	5.1	12
15	Calculations on the Kinetics, Thermodynamics, and Selectivity of Methyl Radical Addition to Olefins Coordinated to d8 and d0 Transition-Metal Fragments: Two Distinct and Opposite anti-Evans-Bolanyi Effects with Potential Practical Implications. <i>Organometallics</i> , 2008 , 27, 5426-5429	3.8	9
14	A Conical Intersection Controls the Deactivation of the Bacterial Luciferase Fluorophore. <i>Angewandte Chemie</i> , 2014 , 126, 10028-10033	3.6	7
13	Excited-State Vibronic Dynamics of Bacteriorhodopsin from Two-Dimensional Electronic Photon Echo Spectroscopy and Multiconfigurational Quantum Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3889-3896	6.4	4
12	Computational Photochemistry and Photobiology 2012 , 1029-1056		4
11	A Single-Point Mutation in d-Arginine Dehydrogenase Unlocks a Transient Conformational State Resulting in Altered Cofactor Reactivity. <i>Biochemistry</i> , 2021 , 60, 711-724	3.2	4

10	Quantum-classical simulations of rhodopsin reveal excited-state population splitting and its effects on quantum efficiency.. <i>Nature Chemistry</i> , 2022 ,	17.6	4
9	Cyclopropenone (c-C ₃ H ₂ O) as a Tracer of the Nonequilibrium Chemistry Mediated by Galactic Cosmic Rays in Interstellar Ices. <i>Astrophysical Journal</i> , 2021 , 911, 24	4.7	3
8	QM/MM Investigation of the Spectroscopic Properties of the Fluorophore of Bacterial Luciferase. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 605-613	6.4	3
7	The effect of hydrogen-bonding on flavin's infrared absorption spectrum. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 262, 120110	4.4	3
6	Probing vibrationally mediated ultrafast excited-state reaction dynamics with multireference (CASPT2) trajectories. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 11271-5	2.8	2
5	Free Energy Computation for an Isomerizing Chromophore in a Molecular Cavity via the Average Solvent Electrostatic Configuration Model: Applications in Rhodopsin and Rhodopsin-Mimicking Systems. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 5885-5895	6.4	2
4	OS100: A Benchmark Set of 100 Digitized UV-Visible Spectra and Derived Experimental Oscillator Strengths.. <i>Journal of Physical Chemistry A</i> , 2022 ,	2.8	1
3	Ionic Atmosphere Effect on the Absorption Spectrum of a Flavoprotein: A Reminder to Consider Solution Ions. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8384-8396	6.4	1
2	Tuning Protein Dynamics to Sense Rapid Endoplasmic-Reticulum Calcium Dynamics. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23289-23298	16.4	0
1	Tuning Protein Dynamics to Sense Rapid Endoplasmic-Reticulum Calcium Dynamics. <i>Angewandte Chemie</i> , 2021 , 133, 23477	3.6	0