

Alessio Valentini

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.

20
papers

1,898
citations

12
h-index

21
g-index

21
ext. papers

2,404
ext. citations

6.3
avg, IF

3.76
L-index

#	Paper	IF	Citations
20	Molcas 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. <i>Journal of Computational Chemistry</i> , 2016 , 37, 506-41	3.5	1047
19	OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5925-5964	3.4	310
18	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
17	Modern quantum chemistry with [Open]Molcas. <i>Journal of Chemical Physics</i> , 2020 , 152, 214117	3.9	106
16	Chiral Hydrogen Bond Environment Providing Unidirectional Rotation in Photoactive Molecular Motors. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1389-96	6.4	47
15	Directionality of Double-Bond Photoisomerization Dynamics Induced by a Single Stereogenic Center. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 599-604	6.4	46
14	Toward Automatic Rhodopsin Modeling as a Tool for High-Throughput Computational Photobiology. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 6020-6034	6.4	39
13	Probing the Photodynamics of Rhodopsins with Reduced Retinal Chromophores. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 839-50	6.4	38
12	Origin of Fluorescence in 11-cis Locked Bovine Rhodopsin. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 2559-63	6.4	27
11	Fluorescence Enhancement of a Microbial Rhodopsin via Electronic Reprogramming. <i>Journal of the American Chemical Society</i> , 2019 , 141, 262-271	16.4	23
10	Optomechanical Control of Quantum Yield in Trans-Cis Ultrafast Photoisomerization of a Retinal Chromophore Model. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3842-3846	16.4	18
9	How Do Methyl Groups Enhance the Triplet Chemiexcitation Yield of Dioxetane?. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3790-3794	6.4	16
8	Mechanical Forces Alter Conical Intersections Topology. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3740-5	6.4	11
7	Web-ARM: A Web-Based Interface for the Automatic Construction of QM/MM Models of Rhodopsins. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 1481-1493	6.1	10
6	Space and Time Evolution of the Electrostatic Potential During the Activation of a Visual Pigment. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2563-7	6.4	7
5	Selective bond formation triggered by short optical pulses: quantum dynamics of a four-center ring closure. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 22302-22313	3.6	7
4	Photosensitized Retinal Isomerization in Rhodopsin Mediated by a Triplet State. <i>ChemPhotoChem</i> , 2019 , 3, 925-932	3.3	4

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| 3 | InteraChem: Virtual Reality Visualizer for Reactive Interactive Molecular Dynamics. <i>Journal of Chemical Education</i> , | 2.4 | 4 |
| 2 | Optomechanical Control of Quantum Yield in Trans- α -Carotene's Ultrafast Photoisomerization of a Retinal Chromophore Model. <i>Angewandte Chemie</i> , 2017 , 129, 3900-3904 | 3.6 | 3 |
| 1 | Voice-controlled quantum chemistry. <i>Nature Computational Science</i> , 2021 , 1, 42-45 | | 3 |