

Luca De Vico

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the Automatic Rhodopsin Modeling (ARM) Protocol. Topics in Current Chemistry, 2022, 380, 21.	5.8	7
2	Frontiers in Multiscale Modeling of Photoreceptor Proteins. Photochemistry and Photobiology, 2021, 97, 243-269.	2.5	26
3	On the Automatic Construction of QM/MM Models for Biological Photoreceptors: Rhodopsins as Model Systems. Challenges and Advances in Computational Chemistry and Physics, 2021, , 1-75.	0.6	4
4	Iron(III) complexing ability of new ligands based on natural $\hat{\text{I}}^3$ -pyrone maltol. Polyhedron, 2020, 187, 114650.	2.2	6
5	Modern quantum chemistry with [Open]Molcas. Journal of Chemical Physics, 2020, 152, 214117.	3.0	281
6	Web-ARM: A Web-Based Interface for the Automatic Construction of QM/MM Models of Rhodopsins. Journal of Chemical Information and Modeling, 2020, 60, 1481-1493.	5.4	15
7	Q_{y} and Q_{x} Absorption Bands for Bacteriochlorophyll a Molecules from LH2 and LH3. Journal of Physical Chemistry A, 2019, 123, 5283-5292.	2.5	15
8	<i>a</i> -ARM: Automatic Rhodopsin Modeling with Chromophore Cavity Generation, Ionization State Selection, and External Counterion Placement. Journal of Chemical Theory and Computation, 2019, 15, 3134-3152.	5.3	44
9	Assessment of MC-PDFT Excitation Energies for a Set of QM/MM Models of Rhodopsins. Journal of Chemical Theory and Computation, 2019, 15, 1915-1923.	5.3	16
10	Two-State, Three-Mode Parametrization of the Force Field of a Retinal Chromophore Model. Journal of Physical Chemistry A, 2019, 123, 1710-1719.	2.5	15
11	Macrocycle ring deformation as the secondary design principle for light-harvesting complexes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9051-E9057.	7.1	21
12	Azadioxatriangulenium and Diazaoxatriangulenium: Quantum Yields and Fundamental Photophysical Properties. ACS Omega, 2017, 2, 193-203.	3.5	29
13	Single-molecule force-conductance spectroscopy of hydrogen-bonded complexes. Journal of Chemical Physics, 2017, 146, 092329.	3.0	20
14	Intermolecular Modes between LH2 Bacteriochlorophylls and Protein Residues: The Effect on the Excitation Energies. Journal of Physical Chemistry B, 2017, 121, 5499-5508.	2.6	19
15	<i>scf</i> Molcas 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. Journal of Computational Chemistry, 2016, 37, 506-541.	3.3	1,317
16	Boron Subphthalocyanine Based Molecular Triad Systems for the Capture of Solar Energy. Journal of Physical Chemistry A, 2016, 120, 7694-7703.	2.5	10
17	Absorption and Fluorescence Lineshape Theory for Polynomial Potentials. Journal of Chemical Theory and Computation, 2016, 12, 5979-5989.	5.3	27
18	Multireference Excitation Energies for Bacteriochlorophylls A within Light Harvesting System 2. Journal of Chemical Theory and Computation, 2016, 12, 1305-1313.	5.3	32

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19	Hypothesis on <i>Serenoa repens</i> (Bartram) small extract inhibition of prostatic 5 α -reductase through an <i>in silico</i> approach on 5 α -reductase x-ray structure. PeerJ, 2016, 4, e2698.	2.0	8
20	Indium arsenide nanowire field-effect transistors for pH and biological sensing. Applied Physics Letters, 2014, 104, .	3.3	22
21	In Silico Prediction of Mutant HIV-1 Proteases Cleaving a Target Sequence. PLoS ONE, 2014, 9, e95833.	2.5	12
22	Effects of buffer composition and dilution on nanowire field-effect biosensors. Nanotechnology, 2013, 24, 035501.	2.6	41
23	<i>In silico</i> screening of 393 mutants facilitates enzyme engineering of amidase activity in CalB. PeerJ, 2013, 1, e145.	2.0	7
24	A computational method for the systematic screening of reaction barriers in enzymes: searching for <i>Bacillus circulans</i> xylanase mutants with greater activity towards a synthetic substrate. PeerJ, 2013, 1, e111.	2.0	7
25	BioFET-SIM: A Tool for the Analysis and Prediction of Signal Changes in Nanowire-Based Field Effect Transistor Biosensors. Lecture Notes in Nanoscale Science and Technology, 2013, , 55-86.	0.8	0
26	BioFET-SIM Web Interface: Implementation and Two Applications. PLoS ONE, 2012, 7, e45379.	2.5	10
27	A Computational Methodology to Screen Activities of Enzyme Variants. PLoS ONE, 2012, 7, e49849.	2.5	15
28	Predicting and rationalizing the effect of surface charge distribution and orientation on nano-wire based FET bio-sensors. Nanoscale, 2011, 3, 3635.	5.6	35
29	Quantifying signal changes in nano-wire based biosensors. Nanoscale, 2011, 3, 706-717.	5.6	37
30	MOLCAS 7: The Next Generation. Journal of Computational Chemistry, 2010, 31, 224-247.	3.3	1,485
31	A CASSCF/CASPT2 approach to the decomposition of thiazole-substituted dioxetanone: Substitution effects and charge-transfer induced electron excitation. Chemical Physics Letters, 2009, 484, 69-75.	2.6	52
32	Theoretical Study of the Chemiluminescent Decomposition of Dioxetanone. Journal of the American Chemical Society, 2009, 131, 6181-6188.	13.7	98
33	Location of Two Seams in the Proximity of the C_{2v} Minimum Energy Path of Formaldehyde. Journal of Chemical Theory and Computation, 2009, 5, 186-191.	5.3	6
34	Ab initio investigation on the chemical origin of the firefly bioluminescence. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 194, 261-267.	3.9	57
35	The ozone ring closure as a test for multi-state multi-configurational second order perturbation theory (MS-CASPT2). Chemical Physics Letters, 2008, 461, 136-141.	2.6	18
36	Chemiluminescence of 1,2-Dioxetane. Reaction Mechanism Uncovered. Journal of Physical Chemistry A, 2007, 111, 8013-8019.	2.5	106

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37	Spin-Orbit Ab Initio Investigation of the Ultraviolet Photolysis of Diiodomethane. ChemPhysChem, 2007, 8, 890-898.	2.1	25
38	A theoretical study of singlet low-energy excited states of the benzene dimer. Chemical Physics Letters, 2006, 426, 268-272.	2.6	52
39	Characterization of the conical intersection of the visual pigment rhodopsin at the CASPT2//CASSCF/AMBER level of theory. Molecular Physics, 2006, 104, 983-991.	1.7	43
40	New General Tools for Constrained Geometry Optimizations. Journal of Chemical Theory and Computation, 2005, 1, 1029-1037.	5.3	94
41	Toward a computational photobiology. Pure and Applied Chemistry, 2005, 77, 977-993.	1.9	10
42	Photoisomerization Mechanism of 11-cis-Locked Artificial Retinal Chromophores: Acceleration and Primary Photoproduct Assignment. Journal of the American Chemical Society, 2005, 127, 2433-2442.	13.7	27
43	A Fast Photoswitch for Minimally Perturbed Peptides: Investigation of the trans to cis Photoisomerization of N-Methylthioacetamide. Journal of the American Chemical Society, 2004, 126, 8823-8834.	13.7	79
44	Photoisomerization acceleration in retinal protonated Schiff-base models. Photochemical and Photobiological Sciences, 2003, 2, 1250.	2.9	25
45	Reaction Path Analysis of the Tunable Photoisomerization Selectivity of Free and Locked Retinal Chromophores. Journal of the American Chemical Society, 2002, 124, 4124-4134.	13.7	68