

Oliver Weingart

List of Publications by Year in descending order

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59
papers

4,354
citations

186265

28
h-index

149698

56
g-index

61
all docs

61
docs citations

61
times ranked

5083
citing authors

#	ARTICLE	IF	CITATIONS
1	<sc>Molcas</sc> 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. Journal of Computational Chemistry, 2016, 37, 506-541.	3.3	1,317
2	Conical intersection dynamics of the primary photoisomerization event in vision. Nature, 2010, 467, 440-443.	27.8	779
3	Coordinatively unsaturated metal sites (open metal sites) in metal-organic frameworks: design and applications. Chemical Society Reviews, 2020, 49, 2751-2798.	38.1	449
4	Metal-Organic Frameworks with Potential Application for SO ₂ Separation and Flue Gas Desulfurization. ACS Applied Materials & Interfaces, 2019, 11, 17350-17358.	8.0	143
5	Chiral Pathways and Periodic Decay in <i>cis</i> -Azobenzene Photodynamics. Journal of Physical Chemistry Letters, 2011, 2, 1506-1509.	4.6	129
6	Capture and Separation of SO ₂ Traces in Metal-Organic Frameworks via Pre-Synthetic Pore Environment Tailoring by Methyl Groups. Angewandte Chemie - International Edition, 2021, 60, 17998-18005.	13.8	92
7	Probing the Photochemical Funnel of a Retinal Chromophore Model via Zero-Point Energy Sampling Semiclassical Dynamics. Journal of Physical Chemistry A, 2004, 108, 4685-4693.	2.5	81
8	Substrate-induced symmetry reduction of CuPc on Cu(111): An LT-STM study. Surface Science, 2009, 603, L39-L43.	1.9	73
9	Bicycle-Pedal Isomerization in a Rhodopsin Chromophore Model. Journal of the American Chemical Society, 2009, 131, 16-17.	13.7	72
10	Product formation in rhodopsin by fast hydrogen motions. Physical Chemistry Chemical Physics, 2011, 13, 3645.	2.8	70
11	Cooperating Dinitrogen and Phenyl Rotations in <i>trans</i> -Azobenzene Photoisomerization. Journal of Chemical Theory and Computation, 2012, 8, 2352-2358.	5.3	68
12	The Twisted C11C12 Bond of the Rhodopsin Chromophore A Photochemical Hot Spot. Journal of the American Chemical Society, 2007, 129, 10618-10619.	13.7	59
13	Zirconium and Aluminum MOFs for Low-Pressure SO ₂ Adsorption and Potential Separation: Elucidating the Effect of Small Pores and NH ₂ Groups. ACS Applied Materials & Interfaces, 2021, 13, 29137-29149.	8.0	59
14	Ground and Excited States of Retinal Schiff Base Chromophores by Multiconfigurational Perturbation Theory. Biophysical Journal, 2006, 91, L07-L09.	0.5	58
15	COBRAMM 2.0 - A software interface for tailoring molecular electronic structure calculations and running nanoscale (QM/MM) simulations. Journal of Molecular Modeling, 2018, 24, 271.	1.8	55
16	Photochemistry of Visual Pigment Chromophore Models by Ab Initio Molecular Dynamics. Journal of Physical Chemistry B, 2007, 111, 3782-3788.	2.6	51
17	Interfacial States in Donor-Acceptor Organic Heterojunctions: Computational Insights into Thiophene-Oligomer/Fullerene Junctions. Journal of Chemical Theory and Computation, 2013, 9, 533-542.	5.3	45
18	Wavepacket Splitting and Two-Pathway Deactivation in the Photoexcited Visual Pigment Isorhodopsin. Angewandte Chemie - International Edition, 2014, 53, 2504-2507.	13.8	45

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19	Electron promotion and electronic friction in atomic collision cascades. <i>New Journal of Physics</i> , 2007, 9, 38-38.	2.9	41
20	Nonadiabatic Decay Dynamics of a Benzylidene Malononitrile. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1510-1518.	2.5	38
21	Modelling Time-Resolved Two-Dimensional Electronic Spectroscopy of the Primary Photoisomerization Event in Rhodopsin. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8396-8405.	2.6	35
22	Tracking the primary photoconversion events in rhodopsins by ultrafast optical spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 213-228.	2.9	35
23	Protein Assistance in the Photoisomerization of Rhodopsin and 9-cis-Rhodopsin Insights from Experiment and Theory. <i>Journal of the American Chemical Society</i> , 2007, 129, 1052-1054.	13.7	34
24	Encapsulation of Phosphorescent Pt(II) Complexes in Zn-Based Metal-Organic Frameworks toward Oxygen-Sensing Porous Materials. <i>Inorganic Chemistry</i> , 2020, 59, 7252-7264.	4.0	34
25	Sampling excited state dynamics: influence of HOOP mode excitations in a retinal model. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14299.	2.8	32
26	Tracking excited state decay mechanisms of pyrimidine nucleosides in real time. <i>Nature Communications</i> , 2021, 12, 7285.	12.8	32
27	The photoformation of a phthalide: a ketene intermediate traced by FSRS. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 376-386.	2.8	29
28	Spectral properties and isomerisation path of retinal in C1C2 channelrhodopsin. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25142-25150.	2.8	28
29	Relationship between Excited State Lifetime and Isomerization Quantum Yield in Animal Rhodopsins: Beyond the One-Dimensional Landau-Zener Model. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3315-3322.	4.6	28
30	Bond torsion affects the product distribution in the photoreaction of retinal model chromophores. <i>Journal of Molecular Modeling</i> , 2006, 12, 713-721.	1.8	27
31	Density-functional theory study of vibrational relaxation of CO stretching excitation on Si(100). <i>Journal of Chemical Physics</i> , 2008, 129, 174702.	3.0	27
32	The role of HOOP-modes in the ultrafast photo-isomerization of retinal models. <i>Chemical Physics</i> , 2008, 349, 348-355.	1.9	26
33	Fast Photoisomerization of a Rhodopsin Model—An Ab Initio Molecular Dynamics Study. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2784-2786.	13.8	24
34	Modeling hot-electron generation induced by electron promotion in atomic collision cascades in metals. <i>Physical Review B</i> , 2008, 77, .	3.2	23
35	Excited state molecular dynamics of retinal model chromophores. <i>Phase Transitions</i> , 2005, 78, 17-24.	1.3	22
36	Modelling vibrational coherence in the primary rhodopsin photoproduct. <i>Journal of Chemical Physics</i> , 2012, 137, 22A523.	3.0	22

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37	Combined Quantum and Molecular Mechanics (QM/MM) Approaches to Simulate Ultrafast Photodynamics in Biological Systems. <i>Current Organic Chemistry</i> , 2017, 21, 586-601.	1.6	19
38	Periodic decay in the photoisomerisation of p-aminoazobenzene. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11814.	2.8	17
39	Impact of fluorination on the photophysics of the flavin chromophore: a quantum chemical perspective. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9912-9923.	2.8	16
40	Dual Photochemical Reaction Pathway in Flavin-Based Photoreceptor LOV Domain: A Combined Quantum-Mechanics/Molecular-Mechanics Investigation. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9583-9596.	2.6	14
41	QM/MM Photodynamics of Retinal in the Channelrhodopsin Chimera C1C2 with OM3/MRCI. <i>ChemPhotoChem</i> , 2019, 3, 107-116.	3.0	11
42	The effect of solvent relaxation in the ultrafast time-resolved spectroscopy of solvated benzophenone. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 323-331.	2.9	10
43	Cyclic diphenic hydrazide: crystal structure, resolution, absolute configuration, and enantiomerization pathway investigation. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 537-543.	1.8	9
44	Femtosecond Spectroscopy of Calcium Dipicolinate—A Major Component of Bacterial Spores. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9376-9386.	2.6	9
45	Fluorinated azobenzenes as supramolecular halogen-bonding building blocks. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2013-2019.	2.2	9
46	On the role of electronic friction and electron promotion in kinetic excitation of solids. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 255, 281-285.	1.4	8
47	New Perspectives on an Old Issue: A Comparative MS-CASPT2 and OM2-MRCI Study of Polyenes and Protonated Schiff Bases. <i>Photochemistry and Photobiology</i> , 2017, 93, 1345-1355.	2.5	8
48	The role of electronic friction of low-energy recoils in atomic collision cascades. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 258, 83-86.	1.4	7
49	On the large apparent Stokes shift of phthalimides. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4839-4853.	2.8	7
50	Einlagerung und Abtrennung von SO ₂ -Spuren in Metallorganischen Gerüstverbindungen durch präsynthetische Anpassung der Poren Umgebung mit Methylgruppen. <i>Angewandte Chemie</i> , 2021, 133, 18145-18153.	2.0	6
51	Supramolecular networks by imine halogen bonding. <i>Chemical Communications</i> , 2022, , .	4.1	5
52	Solid-State Landscape of 4,4'-Azobis(3,5-dimethyl-1H-pyrazole) with the Isolation of Conformer-Dependent Polymorphs. <i>Crystal Growth and Design</i> , 2020, 20, 2721-2733.	3.0	4
53	The Photophysics of Dibenzo[<i>a,j</i>]phenazine. <i>ChemPhotoChem</i> , 2021, 5, 335-347.	3.0	3
54	Structural and Energetic Aspects of Entacapone-Theophylline-Water Cocrystal. <i>Solids</i> , 2022, 3, 66-92.	2.4	3

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55	Excited State Isomerization of Small Polyeneiminium Ions - The Influence of Initial Torsion and Methyl Substitution on Md-Calculated Reaction Dynamics. Phase Transitions, 2002, 75, 19-29.	1.3	2
56	Protein Induced Torsion of the Retinal Chromophore and How it Affects the Photochemistry of Rhodopsin. AIP Conference Proceedings, 2007, , .	0.4	0
57	Introductionâ€™Festschrift in Honor of Prof. Volker BuÃŸ. Photochemistry and Photobiology, 2017, 93, 1335-1335.	2.5	0
58	The Photophysics of Dibenzo[a,j]phenazine. ChemPhotoChem, 2021, 5, 297-297.	3.0	0
59	Bond torsion affects the product distribution in the photoreaction of retinal model chromophores. , 0, , 713-721.		0