

Felix Plasser

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7540366/felix-plasser-publications-by-citations.pdf>

Version: 2024-04-24

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.

100
papers

5,467
citations

34
h-index

73
g-index

124
ext. papers

6,635
ext. citations

5.7
avg, IF

6.37
L-index

#	Paper	IF	Citations
100	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
99	OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5925-5964	3.4	310
98	New tools for the systematic analysis and visualization of electronic excitations. I. Formalism. <i>Journal of Chemical Physics</i> , 2014 , 141, 024106	3.9	290
97	Analysis of Excitonic and Charge Transfer Interactions from Quantum Chemical Calculations. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 2777-89	6.4	284
96	Newton-X: a surface-hopping program for nonadiabatic molecular dynamics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014 , 4, 26-33	7.9	280
95	Multireference Approaches for Excited States of Molecules. <i>Chemical Reviews</i> , 2018 , 118, 7293-7361	68.1	181
94	New tools for the systematic analysis and visualization of electronic excitations. II. Applications. <i>Journal of Chemical Physics</i> , 2014 , 141, 024107	3.9	172
93	The multiradical character of one- and two-dimensional graphene nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2581-4	16.4	168
92	Surface Hopping Dynamics with Correlated Single-Reference Methods: 9H-Adenine as a Case Study. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1395-405	6.4	139
91	Surface hopping dynamics using a locally diabatic formalism: charge transfer in the ethylene dimer cation and excited state dynamics in the 2-pyridone dimer. <i>Journal of Chemical Physics</i> , 2012 , 137, 22A514	3.9	139
90	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. <i>Journal of Chemical Physics</i> , 2021 , 155, 084801	3.9	115
89	Exciton analysis of many-body wave functions: Bridging the gap between the quasiparticle and molecular orbital pictures. <i>Physical Review A</i> , 2014 , 90,	2.6	105
88	Efficient and Flexible Computation of Many-Electron Wave Function Overlaps. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 1207-19	6.4	100
87	Benchmarking Excited-State Calculations Using Exciton Properties. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 710-725	6.4	97
86	Excited-state diproton transfer in [2,2'-bipyridyl]-3,3'-diol: the mechanism is sequential, not concerted. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 8490-9	2.8	96
85	TheoDORE: A toolbox for a detailed and automated analysis of electronic excited state computations. <i>Journal of Chemical Physics</i> , 2020 , 152, 084108	3.9	95
84	Quantitative wave function analysis for excited states of transition metal complexes. <i>Coordination Chemistry Reviews</i> , 2018 , 361, 74-97	23.2	81

83	Statistical analysis of electronic excitation processes: Spatial location, compactness, charge transfer, and electron-hole correlation. <i>Journal of Computational Chemistry</i> , 2015 , 36, 1609-20	3.5	78
82	Polyradical Character of Triangular Non-Kekulé Structures, Zethrenes, p-Quinodimethane-Linked Bisphenalenyl, and the Clar Goblet in Comparison: An Extended Multireference Study. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 1625-36	2.8	70
81	Electronically excited states and photodynamics: a continuing challenge. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	69
80	Communication: Exciton analysis in time-dependent density functional theory: How functionals shape excited-state characters. <i>Journal of Chemical Physics</i> , 2015 , 143, 171101	3.9	68
79	Electronic delocalization, charge transfer and hypochromism in the UV absorption spectrum of polyadenine unravelled by multiscale computations and quantitative wavefunction analysis. <i>Chemical Science</i> , 2017 , 8, 5682-5691	9.4	61
78	UV absorption spectrum of alternating DNA duplexes. Analysis of excitonic and charge transfer interactions. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 11151-60	2.8	61
77	The effect of hydrogen bonding on the excited-state proton transfer in 2-(2'-hydroxyphenyl)benzothiazole: a TDDFT molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9016-25	3.6	60
76	Electronically excited states in poly(p-phenylenevinylene): vertical excitations and torsional potentials from high-level ab initio calculations. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2181-9	2.8	59
75	Highly efficient surface hopping dynamics using a linear vibronic coupling model. <i>Physical Chemistry Chemical Physics</i> , 2018 , 21, 57-69	3.6	55
74	A comparison of singlet and triplet states for one- and two-dimensional graphene nanoribbons using multireference theory. <i>Theoretical Chemistry Accounts</i> , 2014 , 133, 1	1.9	51
73	Excitons in poly(para phenylene vinylene): a quantum-chemical perspective based on high-level ab initio calculations. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2548-63	3.6	47
72	Intramolecular Charge-Transfer Excited-State Processes in 4-(N,N-Dimethylamino)benzonitrile: The Role of Twisting and the π State. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 6232-43	2.8	46
71	Electronic excitation and structural relaxation of the adenine dinucleotide in gas phase and solution. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 1440-52	4.2	43
70	Ultrafast Excited-State Decays in [Re(CO)(N,N)(L)]: Nonadiabatic Quantum Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 1293-1306	6.4	42
69	Study of the diradicaloid character in a prototypical pancake-bonded dimer: the stacked tetracyanoethylene (TCNE) anion dimer and the neutral K(2)TCNE(2) complex. <i>ChemPhysChem</i> , 2014 , 15, 165-76	3.2	39
68	Toward an understanding of electronic excitation energies beyond the molecular orbital picture. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6058-6080	3.6	37
67	Excited-states of a rhenium carbonyl diimine complex: solvation models, spin-orbit coupling, and vibrational sampling effects. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27240-27250	3.6	36
66	Universal Exciton Size in Organic Polymers is Determined by Nonlocal Orbital Exchange in Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1205-1210	6.4	34

65	Strong Influence of Decoherence Corrections and Momentum Rescaling in Surface Hopping Dynamics of Transition Metal Complexes. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5031-5045	6.4	34
64	Nonadiabatic Dynamics of Cycloparaphenylenes with TD-DFTB Surface Hopping. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 5846-5860	6.4	33
63	Entanglement entropy of electronic excitations. <i>Journal of Chemical Physics</i> , 2016 , 144, 194107	3.9	33
62	Detailed Wave Function Analysis for Multireference Methods: Implementation in the Molcas Program Package and Applications to Tetracene. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 5343-5353	6.4	32
61	Exciton size and binding energy limitations in one-dimensional organic materials. <i>Journal of Chemical Physics</i> , 2015 , 143, 244905	3.9	31
60	High-level ab initio computations of the absorption spectra of organic iridium complexes. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 1023-36	2.8	29
59	Description of excited states in [Re(Imidazole)(CO) ₃ (Phen)](+) including solvent and spin-orbit coupling effects: Density functional theory versus multiconfigurational wavefunction approach. <i>Journal of Computational Chemistry</i> , 2016 , 37, 2454-66	3.5	27
58	Semiclassical dynamics simulations of charge transport in stacked π -systems. <i>Journal of Chemical Physics</i> , 2011 , 134, 034309	3.9	27
57	Ultrafast Intersystem Crossing vs Internal Conversion in π -Diimine Transition Metal Complexes: Quantum Evidence. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5189-5195	6.4	24
56	Perturbational treatment of spin-orbit coupling for generally applicable high-level multi-reference methods. <i>Journal of Chemical Physics</i> , 2014 , 141, 074105	3.9	24
55	Ultrafast Electronic Energy Transfer in an Orthogonal Molecular Dyad. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1086-1092	6.4	23
54	Surface hopping dynamics including intersystem crossing using the algebraic diagrammatic construction method. <i>Journal of Chemical Physics</i> , 2017 , 147, 184109	3.9	23
53	Wavelength-optimized Two-Photon Polymerization Using Initiators Based on Multipolar Aminostyryl-1,3,5-triazines. <i>Scientific Reports</i> , 2018 , 8, 17273	4.9	23
52	The generality of the GUGA MRCI approach in COLUMBUS for treating complex quantum chemistry. <i>Journal of Chemical Physics</i> , 2020 , 152, 134110	3.9	22
51	Surface Hopping within an Exciton Picture. An Electrostatic Embedding Scheme. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 6139-6148	6.4	22
50	Interstate vibronic coupling constants between electronic excited states for complex molecules. <i>Journal of Chemical Physics</i> , 2018 , 148, 124119	3.9	21
49	Der Multiradikalcharakter ein- und zweidimensionaler Graphen-Nanobänder. <i>Angewandte Chemie</i> , 2013 , 125, 2641-2644	3.6	21
48	The Influence of the Electronic Structure Method on Intersystem Crossing Dynamics. The Case of Thioformaldehyde. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 3470-3480	6.4	19

47	Chromophores from hexeneuronic acids: identification of HexA-derived chromophores. <i>Cellulose</i> , 2017 , 24, 3671-3687	5.5	18
46	Electronic excitation processes in single-strand and double-strand DNA: a computational approach. <i>Topics in Current Chemistry</i> , 2015 , 356, 1-37		17
45	Communication: Unambiguous comparison of many-electron wavefunctions through their overlaps. <i>Journal of Chemical Physics</i> , 2016 , 145, 021103	3.9	17
44	Dynamics of benzene excimer formation from the parallel-displaced dimer. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 13916-13924	3.6	16
43	Designing Singlet Fission Candidates from Donor-Acceptor Copolymers. <i>Chemistry of Materials</i> , 2020 , 32, 6515-6524	9.6	16
42	Electronic and Photophysical Properties of [Re(L)(CO) ₃ (phen)](+) and [Ru(L) ₂ (bpy) ₂](2+) (L = imidazole), Building Units for Long-Range Electron Transfer in Modified Blue Copper Proteins. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 6934-43	2.8	16
41	Evaluation of the quasi correlated tight-binding (QCTB) model for describing polyradical character in polycyclic hydrocarbons. <i>Journal of Chemical Physics</i> , 2017 , 146, 064106	3.9	15
40	Synthesis, spectroscopy, and computational analysis of photoluminescent bis(aminophenyl)-substituted thiophene derivatives. <i>ChemPhysChem</i> , 2013 , 14, 1016-24	3.2	15
39	Charge-transfer states in triazole linked donor-acceptor materials: strong effects of chemical modification and solvation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18055-18067	3.6	14
38	Challenges in Simulating Light-Induced Processes in DNA. <i>Molecules</i> , 2017 , 22, 49	4.8	13
37	Elucidating the Electronic Structure of a Delayed Fluorescence Emitter via Orbital Interactions, Excitation Energy Components, Charge-Transfer Numbers, and Vibrational Reorganization Energies. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2712-2720	6.4	13
36	A systematic analysis of excitonic properties to seek optimal singlet fission: the BN-substitution patterns in tetracene. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7793-7804	7.1	12
35	Color Fine-Tuning of Optical Materials Through Rational Design. <i>ChemPhysChem</i> , 2017 , 18, 549-563	3.2	11
34	Visualisation of Electronic Excited-State Correlation in Real Space. <i>ChemPhotoChem</i> , 2019 , 3, 702-706	3.3	11
33	Local Electron Correlation Treatment in Extended Multireference Calculations: Effect of Acceptor-Donor Substituents on the Biradical Character of the Polycyclic Aromatic Hydrocarbon Heptazethrene. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 2612-2622	6.4	10
32	Effect of symmetric and asymmetric substitution on the optoelectronic properties of 9,10-dicyanoanthracene. <i>Molecular Systems Design and Engineering</i> , 2019 , 4, 951-961	4.6	10
31	Red-shifted delayed fluorescence at the expense of photoluminescence quantum efficiency - an intramolecular charge-transfer molecule based on a benzodithiophene-4,8-dione acceptor. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10580-10586	3.6	10
30	Optical absorption properties of metal-organic frameworks: solid state molecular perspective. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19512-19521	3.6	8

- 29 Surface Hopping Dynamics on Vibronic Coupling Models. *Accounts of Chemical Research*, **2021**, 54, 3760-3771 8
- 28 Direct, Mediated, and Delayed Intramolecular Singlet Fission Mechanism in Donor-Acceptor Copolymers. *Journal of Physical Chemistry Letters*, **2020**, 11, 9788-9794 6.4 7
- 27 Visualisation of Chemical Shielding Tensors (VIST) to Elucidate Aromaticity and Antiaromaticity. *European Journal of Organic Chemistry*, **2021**, 2021, 2529-2539 3.2 7
- 26 Orbital-free photophysical descriptors to predict directional excitations in metal-based photosensitizers. *Chemical Science*, **2020**, 11, 7685-7693 9.4 6
- 25 Multi-Tier Electronic Structure Analysis of Sita's Mo and W Complexes Capable of Thermal or Photochemical N₂ Splitting. *European Journal of Inorganic Chemistry*, **2020**, 2020, 1506-1518 2.3 6
- 24 Annihilation Dynamics of Molecular Excitons Measured at a Single Perturbative Excitation Energy. *Journal of Physical Chemistry Letters*, **2020**, 11, 7776-7781 6.4 6
- 23 Exploitation of Baird Aromaticity and Clar's Rule for Tuning the Triplet Energies of Polycyclic Aromatic Hydrocarbons. *Chemistry*, **2021**, 3, 532-549 2.1 6
- 22 Identifying the Trade-off between Intramolecular Singlet Fission Requirements in Donor-Acceptor Copolymers. *Chemistry of Materials*, **2021**, 33, 2567-2575 9.6 5
- 21 Excited-State Reactivity of [Mn(im)(CO) (phen)] : A Structural Exploration. *Journal of Computational Chemistry*, **2019**, 40, 72-81 3.5 5
- 20 UV absorption in metal decorated boron nitride flakes: a theoretical analysis of excited states. *Molecular Physics*, **2017**, 115, 2469-2477 1.7 4
- 19 Computational Assessment of MLCT versus MC Stabilities in First-to-Third-Row d Pseudo-Octahedral Transition Metal Complexes. *Journal of Computational Chemistry*, **2019**, 40, 2377-2390 3.5 4
- 18 OpenMolcas: From Source Code to Insight 4
- 17 Excited-state symmetry breaking in 9,10-dicyanoanthracene-based quadrupolar molecules: the effect of donor-acceptor branch length. *Physical Chemistry Chemical Physics*, **2021**, 23, 15150-15158 3.6 4
- 16 Highly sensitive ²⁶Al measurements by Ion-Laser-InterAction Mass Spectrometry. *International Journal of Mass Spectrometry*, **2021**, 465, 116576 1.9 4
- 15 Functional group introduction and aromatic unit variation in a set of π -conjugated macrocycles: revealing the central role of local and global aromaticity. *Organic Chemistry Frontiers*, **2021**, 8, 4730-4745 5.2 4
- 14 A complementary approach to conjugated π -acyliminium formation through photoredox-catalyzed intermolecular radical addition to allenamides and allencarbamates. *Beilstein Journal of Organic Chemistry*, **2020**, 16, 1983-1990 2.5 3
- 13 Pushing the Limits of the Donor-Acceptor Copolymer Strategy for Intramolecular Singlet Fission. *Journal of Physical Chemistry Letters*, **2021**, 12, 7270-7277 6.4 3
- 12 Solution processed CZTS solar cells using amine-thiol systems: understanding the dissolution process and device fabrication. *Journal of Materials Chemistry C*, **2020**, 8, 10309-10318 7.1 2

11	The role of excited-state character, structural relaxation, and symmetry breaking in enabling delayed fluorescence activity in push-pull chromophores. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26135-26150	3.6	2
10	Excited-state dynamics of [Mn(im)(CO)(phen)]: PhotoCORM, catalyst, luminescent probe?. <i>Journal of Chemical Physics</i> , 2021 , 154, 154102	3.9	2
9	Multi-Reference Configuration Interaction 2020 , 277-297		1
8	Electronically excited states and photodynamics: a continuing challenge 2012 , 147-160		1
7	Mechanistic insight into the fluorescence activity of forensic fingerprinting reagents. <i>Journal of Chemical Physics</i> , 2021 , 154, 124313	3.9	1
6	[2.2.2.2]Paracyclophanetetraenes (PCTs): cyclic structural analogues of poly(p-phenylene vinylene)s (PPVs). <i>Open Research Europe</i> , 1, 111		1
5	Spin-density calculation via the graphical unitary group approach. <i>Molecular Physics</i> ,	1.7	1
4	Sterically demanding macrocyclic Eu(III) complexes for selective recognition of phosphate and real-time monitoring of enzymatically generated adenosine monophosphate.. <i>Chemical Science</i> , 2022 , 13, 3386-3394	9.4	0
3	Oxygen harvesting from carbon dioxide: simultaneous epoxidation and CO formation. <i>Chemical Science</i> , 2021 , 12, 13373-13378	9.4	0
2	[2.2.2.2]Paracyclophanetetraenes (PCTs): cyclic structural analogues of poly(p-phenylene vinylene)s (PPVs). <i>Open Research Europe</i> , 1, 111		0
1	Donor-Acceptor-Donor Hot Exciton Triads for High Reverse Intersystem Crossing in OLEDs. <i>Advanced Optical Materials</i> , 2200509	8.1	0