

Filippo Lipparini

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4763947/filippo-lipparini-publications-by-year.pdf>

Version: 2024-04-27

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.

76
papers

2,367
citations

28
h-index

47
g-index

83
ext. papers

2,888
ext. citations

5.1
avg, IF

5.62
L-index

#	Paper	IF	Citations
76	Molecular Dynamics Simulations Enforcing Nonperiodic Boundary Conditions: New Developments and Application to the Solvent Shifts of Nitroxide Magnetic Parameters.. <i>Journal of Chemical Theory and Computation</i> , 2022 ,	6.4	2
75	The He-H complex. I. Vibration-rotation-tunneling states and transition probabilities.. <i>Journal of Chemical Physics</i> , 2022 , 156, 144307	3.9	1
74	The He-H complex. II. Infrared predissociation spectrum and energy term diagram.. <i>Journal of Chemical Physics</i> , 2022 , 156, 144308	3.9	1
73	Grassmann Extrapolation of Density Matrices for Born-Oppenheimer Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 6965-6973	6.4	3
72	Second-Order CASSCF Algorithm with the Cholesky Decomposition of the Two-Electron Integrals. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 6819-6831	6.4	1
71	Hybrid QM/classical models: Methodological advances and new applications. <i>Chemical Physics Reviews</i> , 2021 , 2, 041303	4.4	8
70	Multiscale Models for Light-Driven Processes. <i>Annual Review of Physical Chemistry</i> , 2021 , 72, 489-513	15.7	14
69	An enhanced sampling QM/AMOEBA approach: The case of the excited state intramolecular proton transfer in solvated 3-hydroxyflavone. <i>Journal of Chemical Physics</i> , 2021 , 154, 184107	3.9	8
68	How accurate are EOM-CC4 vertical excitation energies?. <i>Journal of Chemical Physics</i> , 2021 , 154, 221103	3.9	3
67	A Proline Mimetic for the Design of New Stable Secondary Structures: Solvent-Dependent Amide Bond Isomerization of ()-Indoline-2-carboxylic Acid Derivatives. <i>Journal of Organic Chemistry</i> , 2021 , 86, 7946-7954	4.2	1
66	QUESTDB: A database of highly accurate excitation energies for the electronic structure community. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021 , 11, e1517	7.9	24
65	Is There a Quadruple Fe-C Bond in FeC(CO) ₃ ?. <i>Computation</i> , 2021 , 9, 95	2.2	
64	NMR chemical shift computations at second-order Møller-Plesset perturbation theory using gauge-including atomic orbitals and Cholesky-decomposed two-electron integrals. <i>Journal of Chemical Physics</i> , 2021 , 155, 074105	3.9	5
63	Energy, Structures, and Response Properties with a Fully Coupled QM/AMOEBA/ddCOSMO Implementation. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 5661-5672	6.4	3
62	Ultrafast Transient Infrared Spectroscopy of Photoreceptors with Polarizable QM/MM Dynamics. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 10282-10292	3.4	3
61	From crystallographic data to the solution structure of photoreceptors: the case of the AppA BLUF domain. <i>Chemical Science</i> , 2021 , 12, 13331-13342	9.4	2
60	Fast Approximate but Accurate QM/MM Interactions for Polarizable Embedding.. <i>Journal of Chemical Theory and Computation</i> , 2021 ,	6.4	1

59	Electronic Circular Dichroism Imaging (ECDi) Casts a New Light on the Origin of Solid-State Chiroptical Properties.. <i>Chemistry - A European Journal</i> , 2021 , e202103632	4.8	0
58	General formulation of polarizable embedding models and of their coupling. <i>Journal of Chemical Physics</i> , 2020 , 153, 224108	3.9	13
57	A polarisable QM/MM description of NMR chemical shifts of a photoreceptor protein. <i>Molecular Physics</i> , 2020 , 118, e1771449	1.7	5
56	Vibrational Excitation Hindering an Ion-Molecule Reaction: The c-C ₃ H ₂ ⁺ -H ₂ Collision Complex. <i>Physical Review Letters</i> , 2020 , 124, 233401	7.4	12
55	Coupled-cluster techniques for computational chemistry: The CFOUR program package. <i>Journal of Chemical Physics</i> , 2020 , 152, 214108	3.9	156
54	Polarizable embedding QM/MM: the future gold standard for complex (bio)systems?. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14433-14448	3.6	50
53	Elucidating the role of structural fluctuations, and intermolecular and vibronic interactions in the spectroscopic response of a bacteriophytochrome. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 8585-8594	3.6	11
52	High-resolution rovibrational spectroscopy of c-C ₃ H ₂ ⁺ : The ν_{CB} antisymmetric stretching band. <i>Journal of Molecular Structure</i> , 2020 , 1214, 128023	3.4	4
51	An approximation strategy to compute accurate initial density matrices for repeated self-consistent field calculations at different geometries. <i>Molecular Physics</i> , 2020 , 118, e1779834	1.7	5
50	A Mountaineering Strategy to Excited States: Highly Accurate Energies and Benchmarks for Medium Sized Molecules. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 1711-1741	6.4	63
49	The Multiple Roles of the Protein in the Photoactivation of Orange Carotenoid Protein. <i>CheM</i> , 2020 , 6, 187-203	16.2	18
48	A Many-Body, Fully Polarizable Approach to QM/MM Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 7462-7472	6.4	7
47	Excited state Born-Oppenheimer molecular dynamics through coupling between time dependent DFT and AMOEBA. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19532-19541	3.6	13
46	Absorption and Circular Dichroism Spectra of Molecular Aggregates With the Full Cumulant Expansion. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 8610-8617	3.4	6
45	Gas-Phase Vibrational Spectroscopy of the Hydrocarbon Cations l-CH, HCH, and c-CH: Structures, Isomers, and the Influence of Ne-Tagging. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 8053-8062	2.8	20
44	Quantum Calculations in Solution of Energies, Structures, and Properties with a Domain Decomposition Polarizable Continuum Model. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 6061-6073	6.4	8
43	Time-Dependent Complete Active Space Embedded in a Polarizable Force Field. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 1633-1641	6.4	12
42	Accurate interaction energies by spin component scaled Møller-Plesset second order perturbation theory calculations with optimized basis sets (SCS-MP2): Development and application to aromatic heterocycles. <i>Journal of Chemical Physics</i> , 2019 , 150, 234113	3.9	6

41	Spectral Variability in Phycocyanin Cryptophyte Antenna Complexes is Controlled by Changes in the Polypeptide Chains. <i>ChemPhotoChem</i> , 2019 , 3, 945-956	3.3	8
40	Towards large scale hybrid QM/MM dynamics of complex systems with advanced point dipole polarizable embeddings. <i>Chemical Science</i> , 2019 , 10, 7200-7211	9.4	30
39	General Linear Scaling Implementation of Polarizable Embedding Schemes. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 4312-4317	6.4	29
38	Coupled Cluster Theory with Induced Dipole Polarizable Embedding for Ground and Excited States. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 4485-4496	6.4	8
37	Uncatalyzed conjugate addition of organozinc halides to enones in DME: a combined experimental/computational study on the role of the solvent and the reaction mechanism. <i>Chemical Science</i> , 2019 , 11, 257-263	9.4	5
36	Nonequilibrium Environment Dynamics in a Frequency-Dependent Polarizable Embedding Model. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 43-51	6.4	15
35	Tinker-HP: a massively parallel molecular dynamics package for multiscale simulations of large complex systems with advanced point dipole polarizable force fields. <i>Chemical Science</i> , 2018 , 9, 956-972	9.4	122
34	A polarizable QM/MM description of environment effects on NMR shieldings: from solvated molecules to pigment-protein complexes. <i>Theoretical Chemistry Accounts</i> , 2018 , 137, 1	1.9	4
33	Internally Contracted Multireference Coupled Cluster Calculations with a Spin-Free Dirac-Coulomb Hamiltonian: Application to the Monoxides of Titanium, Zirconium, and Hafnium. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 3171-3184	6.4	7
32	Coupling Real-Time Time-Dependent Density Functional Theory with Polarizable Force Field. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5283-5289	6.4	18
31	Virtual Orbital Many-Body Expansions: A Possible Route towards the Full Configuration Interaction Limit. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4633-4639	6.4	53
30	Hybrid QM/MM Molecular Dynamics with AMOEBA Polarizable Embedding. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 4025-4033	6.4	61
29	Computation of forces arising from the polarizable continuum model within the domain-decomposition paradigm. <i>Journal of Chemical Physics</i> , 2017 , 147, 224108	3.9	8
28	Cost-Effective Treatment of Scalar Relativistic Effects for Multireference Systems: A CASSCF Implementation Based on the Spin-free Dirac-Coulomb Hamiltonian. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 4284-95	6.4	14
27	A new discretization for the polarizable continuum model within the domain decomposition paradigm. <i>Journal of Chemical Physics</i> , 2016 , 144, 054101	3.9	17
26	A QM/MM Approach Using the AMOEBA Polarizable Embedding: From Ground State Energies to Electronic Excitations. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 3654-61	6.4	100
25	LICHEM: A QM/MM program for simulations with multipolar and polarizable force fields. <i>Journal of Computational Chemistry</i> , 2016 , 37, 1019-29	3.5	57
24	Perspective: Polarizable continuum models for quantum-mechanical descriptions. <i>Journal of Chemical Physics</i> , 2016 , 144, 160901	3.9	59

23	Scalable evaluation of polarization energy and associated forces in polarizable molecular dynamics: II. Toward massively parallel computations using smooth particle mesh Ewald. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2589-99	6.4	37
22	Achieving linear scaling in computational cost for a fully polarizable MM/continuum embedding. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 694-704	6.4	40
21	Polarizable molecular dynamics in a polarizable continuum solvent. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 623-34	6.4	37
20	Addressing the Issues of Non-isotropy and Non-additivity in the Development of Quantum Chemistry-Grounded Polarizable Molecular Mechanics. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2015 , 1-49	0.7	1
19	Scalable Evaluation of Polarization Energy and Associated Forces in Polarizable Molecular Dynamics: II. Towards Massively Parallel Computations using Smooth Particle Mesh Ewald. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1638-1651	6.4	66
18	Quantum Calculations in Solution for Large to Very Large Molecules: A New Linear Scaling QM/Continuum Approach. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 953-8	6.4	28
17	Quantum, classical, and hybrid QM/MM calculations in solution: general implementation of the ddCOSMO linear scaling strategy. <i>Journal of Chemical Physics</i> , 2014 , 141, 184108	3.9	37
16	The Optical Rotation of Methyloxirane in Aqueous Solution: A Never Ending Story?. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1880-4	6.4	64
15	Vertical Electronic Excitations in Solution with the EOM-CCSD Method Combined with a Polarizable Explicit/Implicit Solvent Model. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3035-3042	6.4	40
14	Fast Domain Decomposition Algorithm for Continuum Solvation Models: Energy and First Derivatives. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3637-48	6.4	64
13	A gauge invariant multiscale approach to magnetic spectroscopies in condensed phase: general three-layer model, computational implementation and pilot applications. <i>Journal of Chemical Physics</i> , 2013 , 138, 234108	3.9	42
12	Toward Ab Initio Anharmonic Vibrational Circular Dichroism Spectra in the Condensed Phase. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1766-73	6.4	43
11	Implementation and validation of a multi-purpose virtual spectrometer for large systems in complex environments. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12404-22	3.6	122
10	Linear Response Theory and Electronic Transition Energies for a Fully Polarizable QM/Classical Hamiltonian. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 4153-65	6.4	100
9	Analytical First and Second Derivatives for a Fully Polarizable QM/Classical Hamiltonian. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 4270-8	6.4	65
8	Self-Consistent Field and Polarizable Continuum Model: A New Strategy of Solution for the Coupled Equations. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 610-7	6.4	28
7	Polarizable Force Fields and Polarizable Continuum Model: A Fluctuating Charges/PCM Approach. 1. Theory and Implementation. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 3711-24	6.4	126
6	Towards an accurate description of anharmonic infrared spectra in solution within the polarizable continuum model: reaction field, cavity field and nonequilibrium effects. <i>Journal of Chemical Physics</i> , 2011 , 135, 104505	3.9	45

5	A variational formulation of the polarizable continuum model. <i>Journal of Chemical Physics</i> , 2010 , 133, 014106	3.9	103
4	A fully automated implementation of VPT2 Infrared intensities. <i>Chemical Physics Letters</i> , 2010 , 496, 157-161	3.5	118
3	Non covalent interactions in RNA and DNA base pairs: a quantum-mechanical study of the coupling between solvent and electronic density. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 11617-23	3.6	25
2	Embedding effects on charge-transport parameters in molecular organic materials. <i>Journal of Chemical Physics</i> , 2007 , 127, 144706	3.9	11
1	A black-box, general purpose quadratic self-consistent field code with and without Cholesky decomposition of the two-electron integrals. <i>Molecular Physics</i> ,	1.7	1