

Filippo Lipparini

List of Publications by Citations

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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	Coupled-cluster techniques for computational chemistry: The CFOUR program package. <i>Journal of Chemical Physics</i> , 2020 , 152, 214108	3.9	156
75	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
74	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
73	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
72	A fully automated implementation of VPT2 Infrared intensities. <i>Chemical Physics Letters</i> , 2010 , 496, 157-161	3.6	118
71	A variational formulation of the polarizable continuum model. <i>Journal of Chemical Physics</i> , 2010 , 133, 014106	3.9	103
70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	Hybrid QM/MM Molecular Dynamics with AMOEBA Polarizable Embedding. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 4025-4033	6.4	61
62	Perspective: Polarizable continuum models for quantum-mechanical descriptions. <i>Journal of Chemical Physics</i> , 2016 , 144, 160901	3.9	59
61	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
60	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

59	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
58	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
57	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
56	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
55	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
54	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
53	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
52	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
51	Polarizable molecular dynamics in a polarizable continuum solvent. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 623-34	6.4	37
50	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
49	General Linear Scaling Implementation of Polarizable Embedding Schemes. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 4312-4317	6.4	29
48	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
47	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
46	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
45	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
44	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
43	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
42	The Multiple Roles of the Protein in the Photoactivation of Orange Carotenoid Protein. <i>CheM</i> , 2020 , 6, 187-203	16.2	18

41	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
40	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
39	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
38	Multiscale Models for Light-Driven Processes. <i>Annual Review of Physical Chemistry</i> , 2021 , 72, 489-513	15.7	14
37	General formulation of polarizable embedding models and of their coupling. <i>Journal of Chemical Physics</i> , 2020 , 153, 224108	3.9	13
36	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
35	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
34	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
33	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
32	Embedding effects on charge-transport parameters in molecular organic materials. <i>Journal of Chemical Physics</i> , 2007 , 127, 144706	3.9	11
31	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
30	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
29	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
28	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
27	Hybrid QM/classical models: Methodological advances and new applications. <i>Chemical Physics Reviews</i> , 2021 , 2, 041303	4.4	8
26	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
25	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
24	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

23	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
22	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
21	A polarisable QM/MM description of NMR chemical shifts of a photoreceptor protein. <i>Molecular Physics</i> , 2020 , 118, e1771449	1.7	5
20	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
19	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
18	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
17	High-resolution rovibrational spectroscopy of c-C ₃ H ₂ ⁺ : The ν_{10} C-H antisymmetric stretching band. <i>Journal of Molecular Structure</i> , 2020 , 1214, 128023	3.4	4
16	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
15	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
14	How accurate are EOM-CC4 vertical excitation energies?. <i>Journal of Chemical Physics</i> , 2021 , 154, 221103	3.9	3
13	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
12	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
11	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
10	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
9	Second-Order CASCF 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
8	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
7	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
6	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

5	Fast Approximate but Accurate QM/MM Interactions for Polarizable Embedding.. <i>Journal of Chemical Theory and Computation</i> , 2021 ,	6.4	1
4	The He-H complex. I. Vibration-rotation-tunneling states and transition probabilities.. <i>Journal of Chemical Physics</i> , 2022 , 156, 144307	3.9	1
3	The He-H complex. II. Infrared predissociation spectrum and energy term diagram.. <i>Journal of Chemical Physics</i> , 2022 , 156, 144308	3.9	1
2	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
1	Is There a Quadruple Fe-C Bond in FeC(CO) ₃ ?. <i>Computation</i> , 2021 , 9, 95	2.2	