

# Roberto Peverati

## List of Publications by Year in descending order

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47  
papers

8,275  
citations

304743

22  
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223800

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59  
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59  
docs citations

59  
times ranked

7972  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc Ammonio-dodecaborates: Synthesis, Lewis Acid Strength, and Reactivity. <i>Inorganic Chemistry</i> , 2022, 61, 7032-7042.	4.0	6
2	Fitting elephants in the density functionals zoo: Statistical criteria for the evaluation of density functional theory methods as a suitable replacement for counting parameters. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26379.	2.0	7
3	Competition between cyclization and unusual Norrish type I and type II nitro-acyl migration pathways in the photouncaging of 1-acyl-7-nitroindoline revealed by computations. <i>Scientific Reports</i> , 2021, 11, 1396.	3.3	4
4	CLB18: A new structural database with unusual carbon-carbon long bonds. <i>Chemical Physics Letters</i> , 2021, 765, 138281.	2.6	11
5	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.	3.0	518
6	Evaluation of 3,3-Triazolyl Biisoquinoline N,N-Dioxide Catalysts for Asymmetric Hydrosilylation of Hydrazones with Trichlorosilane. <i>Catalysts</i> , 2021, 11, 1103.	3.5	4
7	Design and synthesis of 3,3-triazolyl biisoquinoline N,N-dioxides via Hiyama cross-coupling of 4-trimethylsilyl-1,2,3-triazoles. <i>Tetrahedron Letters</i> , 2021, 81, 153338.	1.4	4
8	Steps toward Rationalization of the Enantiomeric Excess of the Sakurai-Hosomi-Denmark Allylation Catalyzed by Biisoquinoline N,N-Dioxides Using Computations. <i>Catalysts</i> , 2021, 11, 1487.	3.5	0
9	Improved Identification of Isomeric Steroids Using the Patern-Büchi Reaction with Ion Mobility-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2086-2092.	2.8	14
10	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , 2020, 152, 184102.	3.0	425
11	Synthesis of electrophilic N-heterocyclic carbenes based on azahelicene. <i>Tetrahedron Letters</i> , 2020, 61, 152143.	1.4	7
12	The devil in the details: A tutorial review on some undervalued aspects of density functional theory calculations. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26332.	2.0	63
13	Ozone-Induced Cleavage of Endocyclic C=C Double Bonds within Steroid Epimers Produces Unique Gas-Phase Conformations. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 411-417.	2.8	9
14	Statistically representative databases for density functional theory <i>via</i> data science. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19092-19103.	2.8	20
15	Convenient Access to Gallium(I) Cations through Hydrogen Elimination from Cationic Gallium(III) Hydrides. <i>Inorganic Chemistry</i> , 2019, 58, 12441-12445.	4.0	26
16	ACCDB: A collection of chemistry databases for broad computational purposes. <i>Journal of Computational Chemistry</i> , 2019, 40, 839-848.	3.3	42
17	QMC-SW: A simple workflow for quantum Monte Carlo calculations in chemistry. <i>SoftwareX</i> , 2019, 9, 7-14.	2.6	6
18	Axial-Chiral Biisoquinoline N,N-Dioxides Bearing Polar Aromatic C-H Bonds as Catalysts in Sakurai-Hosomi-Denmark Allylation. <i>Organic Letters</i> , 2018, 20, 5757-5761.	4.6	22

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19	Nucleophilic Aromatic Addition in Ionizing Environments: Observation and Analysis of New C <sup>+</sup> -N Valence Bonds in Complexes between Naphthalene Radical Cation and Pyridine. <i>Journal of the American Chemical Society</i> , 2017, 139, 11923-11932.	13.7	11
20	Blind test of density-functional-based methods on intermolecular interaction energies. <i>Journal of Chemical Physics</i> , 2016, 145, 124105.	3.0	97
21	INSIGHTS INTO HYDROCARBON CHAIN AND AROMATIC RING FORMATION IN THE INTERSTELLAR MEDIUM: COMPUTATIONAL STUDY OF THE ISOMERS OF AND AND THEIR FORMATION PATHWAYS. <i>Astrophysical Journal</i> , 2016, 830, 128.	4.5	11
22	Hydrocarbon growth via ion-molecule reactions: computational studies of the isomers of C <sub>4</sub> H <sub>2</sub> <sup>+</sup> , C <sub>6</sub> H <sub>2</sub> <sup>+</sup> and C <sub>6</sub> H <sub>4</sub> <sup>+</sup> and their formation paths from acetylene and its fragments. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1859-1869.	2.8	21
23	What Is the Structure of the Naphthalene <sup>+</sup> -Benzene Heterodimer Radical Cation? Binding Energy, Charge Delocalization, and Unexpected Charge-Transfer Interaction in Stacked Dimer and Trimer Radical Cations. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1111-1118.	4.6	16
24	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , 2015, 113, 184-215.	1.7	2,561
25	Quest for a universal density functional: the accuracy of density functionals across a broad spectrum of databases in chemistry and physics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20120476.	3.4	599
26	Formation and Stability of C <sub>6</sub> H <sub>3</sub> <sup>+</sup> Isomers. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10109-10116.	2.5	8
27	Assessment and Validation of Density Functional Approximations for Iron Carbide and Iron Carbide Cation. <i>Journal of Physical Chemistry A</i> , 2013, 117, 169-173.	2.5	23
28	Orbital optimized double-hybrid density functionals. <i>Journal of Chemical Physics</i> , 2013, 139, 024110.	3.0	67
29	Performance of recent and high-performance approximate density functionals for time-dependent density functional theory calculations of valence and Rydberg electronic transition energies. <i>Journal of Chemical Physics</i> , 2012, 137, 244104.	3.0	165
30	M11-L: A Local Density Functional That Provides Improved Accuracy for Electronic Structure Calculations in Chemistry and Physics. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 117-124.	4.6	531
31	Performance of the M11-L density functional for bandgaps and lattice constants of unary and binary semiconductors. <i>Journal of Chemical Physics</i> , 2012, 136, 134704.	3.0	64
32	Benchmark Database for Ylidic Bond Dissociation Energies and Its Use for Assessments of Electronic Structure Methods. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2824-2834.	5.3	62
33	An improved and broadly accurate local approximation to the exchange <sup>+</sup> -correlation density functional: The MN12-L functional for electronic structure calculations in chemistry and physics. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13171.	2.8	346
34	Screened-exchange density functionals with broad accuracy for chemistry and solid-state physics. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 16187.	2.8	525
35	Exchange <sup>+</sup> -Correlation Functional with Good Accuracy for Both Structural and Energetic Properties while Depending Only on the Density and Its Gradient. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2310-2319.	5.3	276
36	Performance of the M11 and M11-L density functionals for calculations of electronic excitation energies by adiabatic time-dependent density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11363.	2.8	154

