

Micael J T Oliveira

List of Publications by Year in descending order

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31
papers

6,426
citations

361413

20
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

6704
citing authors

#	ARTICLE	IF	CITATIONS
1	First-principles characterisation of spectroscopic and bonding properties of cationic bismuth carbide clusters. Computational and Theoretical Chemistry, 2021, 1204, 113372.	2.5	0
2	The CECAM electronic structure library and the modular software development paradigm. Journal of Chemical Physics, 2020, 153, 024117.	3.0	19
3	Octopus, a computational framework for exploring light-driven phenomena and quantum dynamics in extended and finite systems. Journal of Chemical Physics, 2020, 152, 124119.	3.0	210
4	Light-matter interactions within the Ehrenfest–Maxwell–Pauli–Kohn–Sham framework: fundamentals, implementation, and nano-optical applications. Advances in Physics, 2019, 68, 225-333.	14.4	54
5	Recent developments in libxc – A comprehensive library of functionals for density functional theory. SoftwareX, 2018, 7, 1-5.	2.6	367
6	Towards efficient data exchange and sharing for big-data driven materials science: metadata and data formats. Npj Computational Materials, 2017, 3, .	8.7	79
7	Self-consistent $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{DFT} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{U} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ method for real-space time-dependent density functional theory calculations. Physical Review B, 2017, 96, .	3.2	35
8	Finite-Size Effects in the Absorption Spectra of a Single-Wall Carbon Nanotube. Journal of Physical Chemistry C, 2016, 120, 18268-18274.	3.1	9
9	Recent developments in the ABINIT software package. Computer Physics Communications, 2016, 205, 106-131.	7.5	662
10	Insights into colour-tuning of chlorophyll optical response in green plants. Physical Chemistry Chemical Physics, 2015, 17, 26599-26606.	2.8	46
11	Computational Benchmarking for Ultrafast Electron Dynamics: Wave Function Methods vs Density Functional Theory. Journal of Chemical Theory and Computation, 2015, 11, 2221-2233.	5.3	11
12	Real-space grids and the Octopus code as tools for the development of new simulation approaches for electronic systems. Physical Chemistry Chemical Physics, 2015, 17, 31371-31396.	2.8	376
13	Recent Memory and Performance Improvements in Octopus Code. Lecture Notes in Computer Science, 2014, , 607-622.	1.3	3
14	Benchmarking the AK13 Exchange Functional: Ionization Potentials and Electron Affinities. Journal of Chemical Theory and Computation, 2014, 10, 5625-5629.	5.3	15
15	Accuracy of generalized gradient approximation functionals for density-functional perturbation theory calculations. Physical Review B, 2014, 89, .	3.2	138
16	A survey of the parallel performance and accuracy of Poisson solvers for electronic structure calculations. Journal of Computational Chemistry, 2014, 35, 427-444.	3.3	23
17	Optical and Magnetic Excitations of Metal-Encapsulating Si Cages: A Systematic Study by Time-Dependent Density Functional Theory. Journal of Physical Chemistry C, 2014, 118, 11377-11384.	3.1	25
18	Time-dependent density-functional theory of strong-field ionization of atoms by soft x rays. Physical Review A, 2014, 90, .	2.5	29

#	ARTICLE	IF	CITATIONS
19	Band widths and gaps from the Tran-Blaha functional: Comparison with many-body perturbation theory. <i>Physical Review B</i> , 2013, 87, .	3.2	125
20	Spin-orbit effects in the bismuth atom and dimer: tight-binding and density functional theory comparison. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 095101.	1.5	4
21	Libxc: A library of exchange and correlation functionals for density functional theory. <i>Computer Physics Communications</i> , 2012, 183, 2272-2281.	7.5	419
22	Time-dependent density-functional theory in massively parallel computer architectures: the octopus project. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 233202.	1.8	181
23	Modeling van der Waals interactions between proteins and inorganic surfaces from time-dependent density functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15055.	2.8	5
24	Density-based mixing parameter for hybrid functionals. <i>Physical Review B</i> , 2011, 83, .	3.2	338
25	Toward an All-Around Semilocal Potential for Electronic Exchange. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3664-3670.	5.3	19
26	Photoabsorption spectra of small cationic xenon clusters from time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2009, 131, 214302.	3.0	4
27	ABINIT: First-principles approach to material and nanosystem properties. <i>Computer Physics Communications</i> , 2009, 180, 2582-2615.	7.5	2,297
28	Generating relativistic pseudo-potentials with explicit incorporation of semi-core states using APE, the Atomic Pseudo-potentials Engine. <i>Computer Physics Communications</i> , 2008, 178, 524-534.	7.5	125
29	The role of dimensionality on the quenching of spin-orbit effects in the optics of gold nanostructures. <i>Journal of Chemical Physics</i> , 2008, 129, 144110.	3.0	36
30	On the Use of Neumann's Principle for the Calculation of the Polarizability Tensor of Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3392-3398.	0.9	16
31	octopus: a tool for the application of time-dependent density functional theory. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2465-2488.	1.5	756