

Pietro Cortona

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

1,574
citations

19
h-index

39
g-index

51
ext. papers

1,711
ext. citations

2.8
avg, IF

4.85
L-index

#	Paper	IF	Citations
50	Solid-State Testing of a Van-Der-Waals-Corrected Exchange-Correlation Functional Based on the Semiclassical Atom Theory. <i>Computation</i> , 2018 , 6, 7	2.2	14
49	Hydrogen bond symmetrization and elastic constants under pressure of β -AlOOH. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 325505	1.8	5
48	Dispersion corrections applied to the TCA family of exchange-correlation functionals. <i>Theoretical Chemistry Accounts</i> , 2017 , 136, 1	1.9	2
47	Semiclassical atom theory applied to solid-state physics. <i>Physical Review B</i> , 2016 , 93,	3.3	49
46	Stability of the different AlOOH phases under pressure. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 185401	1.8	4
45	Ab initio calculations of ideal and defective bismuth telluride nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 517-520	1.3	1
44	Global hybrids from the semiclassical atom theory satisfying the local density linear response. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 122-31	6.4	20
43	Effective electron displacements: a tool for time-dependent density functional theory computational spectroscopy. <i>Journal of Chemical Physics</i> , 2014 , 140, 104101	3.9	50
42	Classical to quantum transition of heat transfer between two silica clusters. <i>Physical Review Letters</i> , 2014 , 112, 114301	7.4	33
41	Assessing modern GGA functionals for solids. <i>Journal of Molecular Modeling</i> , 2013 , 19, 2791-6	2	13
40	Assessing the performances of some recently proposed density functionals for the description of organometallic structures. <i>Theoretical Chemistry Accounts</i> , 2013 , 132, 1	1.9	12
39	Communication: one third: a new recipe for the PBE0 paradigm. <i>Journal of Chemical Physics</i> , 2013 , 138, 021104	3.9	84
38	Large thermal conductivity decrease in point defective Bi ₂ Te ₃ bulk materials and superlattices. <i>Journal of Applied Physics</i> , 2013 , 113, 013506	2.5	48
37	On the Metric of Charge Transfer Molecular Excitations: A Simple Chemical Descriptor. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 3118-26	6.4	247
36	Generalized gradient exchange functionals based on the gradient-regulated connection: a new member of the TCA Family. <i>Highlights in Theoretical Chemistry</i> , 2013 , 237-243		
35	New range-separated hybrids based on the TCA density functional. <i>Chemical Physics Letters</i> , 2012 , 519-520, 145-149	2.5	5
34	Towards a Greater Accuracy in DFT Calculations: From GGA to Hybrid Functionals 2012 , 3-15		

33	Note: Theoretical mixing coefficients for hybrid functionals. <i>Journal of Chemical Physics</i> , 2012 , 136, 086101	1.4	33
32	Generalized gradient exchange functionals based on the gradient-regulated connection: a new member of the TCA family. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	12
31	Density-functional calculations for large systems: can GGA functionals be competitive with hybrid functionals?. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2010 , 2, 163-8	3.5	9
30	Assessing the performances of some recently proposed density functionals for the description of bond dissociations involving organic radicals. <i>International Journal of Quantum Chemistry</i> , 2010 , 110, 2320-2329	2.1	11
29	New Correlation Functionals In DFT: Theory And Tests 2009 ,		5
28	Activation enthalpies of pericyclic reactions: the performances of some recently proposed functionals. <i>Theoretical Chemistry Accounts</i> , 2009 , 122, 257-264	1.9	15
27	Toward a combined DFT/QTAIM description of agostic bonds: the critical case of a Nb(III) complex. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 12322-7	2.8	30
26	A new parameter-free correlation functional based on an average atomic reduced density gradient analysis. <i>Journal of Chemical Physics</i> , 2008 , 128, 034101	3.9	49
25	Increasing physical constraints and improving performances in a parameter-free GGA functional. <i>Chemical Physics Letters</i> , 2008 , 460, 536-539	2.5	31
24	The performances of a parameter-free local correlation functional: The Ragot-Cortona model. <i>Chemical Physics Letters</i> , 2007 , 439, 381-385	2.5	19
23	Interconfigurational energies and ionization potentials: Test of a correlation energy functional. <i>Chemical Physics</i> , 2007 , 337, 161-167	2.3	15
22	Investigation of the surface bands along the X \bar{M} line of the Cu(100) surface. <i>Physical Review B</i> , 2007 , 75,	3.3	3
21	LCAO study of the Cu(110)-p(2 \times 1)O surface. <i>Surface Science</i> , 2005 , 585, 155-162	1.8	5
20	Correlation energy of many-electron systems: a modified Colle-Salvetti approach. <i>Journal of Chemical Physics</i> , 2004 , 121, 7671-80	3.9	31
19	Electronic structure of the Cu-p(2 \times 1)O surface by the semi-empirical LCAO method. <i>Surface Science</i> , 2004 , 566-568, 1102-1106	1.8	3
18	Ab-initio study of the structural phase transition of SrSe and SrTe under pressure. <i>International Journal of Quantum Chemistry</i> , 2004 , 99, 828-832	2.1	21
17	The (100), (110), and (111) Cu surfaces revisited by the semiempirical LCAO method. <i>International Journal of Quantum Chemistry</i> , 2004 , 99, 713-723	2.1	7
16	Semi-empirical LCAO analysis of the surface states of Cu: the (100) surface. <i>Surface Science</i> , 2003 , 532-535, 19-24	1.8	3

15	An ab-initio study of the role of lone pairs in the structure and insulator-metal transition in SnO and PbO. <i>Solid State Sciences</i> , 2002 , 4, 467-474	3.4	53
14	Complementary aspects of charge and momentum density for the study of the chemical bond. <i>Theoretical Chemistry Accounts</i> , 2001 , 105, 284-291	1.9	10
13	Analysis of the MgO structure factors. <i>Physical Review B</i> , 1999 , 60, 8569-8574	3.3	10
12	Cohesive properties and behaviour under pressure of CaS, CaSe, and CaTe: results of ab initio calculations. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 8947-8955	1.8	45
11	Exchange energy in density-functional theory: A nonlocal approximation based on a self-consistent determination of the parameter of the Slater X α theory. <i>Physical Review A</i> , 1998 , 57, 4306-4310	2.6	6
10	Ab initio calculations of cohesive and structural properties of the alkali-earth oxides. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 8983-8994	1.8	33
9	Transverse exchange energy in relativistic density-functional calculations: An alternative approximation. <i>Physical Review A</i> , 1994 , 49, 825-828	2.6	3
8	Self-consistent calculations of total energies and charge densities of solids without solving the band-structure problem. <i>International Journal of Quantum Chemistry</i> , 1994 , 52, 987-992	2.1	13
7	Direct determination of self-consistent total energies and charge densities of solids: A study of the cohesive properties of the alkali halides. <i>Physical Review B</i> , 1992 , 46, 2008-2014	3.3	126
6	Self-consistently determined properties of solids without band-structure calculations. <i>Physical Review B</i> , 1991 , 44, 8454-8458	3.3	344
5	Overview of the Degeneracy-Dependent Self-Interaction Correction (D-SIC) 1991 , 307-321		
4	Relativistic Spin-Polarized Density-Functional Theory: Simplified Method for Fully Relativistic Calculations 1991 , 285-293		
3	Simplified method for fully relativistic spin-polarized density-functional calculations. <i>Physical Review B</i> , 1989 , 40, 12105-12110	3.3	5
2	Self-interaction correction: The transition-metal atoms. <i>Physical Review A</i> , 1988 , 38, 3850-3856	2.6	7
1	New self-interaction-corrected local-density approximation to the density-functional theory. <i>Physical Review A</i> , 1986 , 34, 769-776	2.6	30