

Andreas Savin

List of Publications by Year in descending order

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131
papers

17,352
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41344

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14759

127
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135
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docs citations

135
times ranked

11669
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Should We Gain Confidence from the Similarity of Results between Methods?. <i>Computation</i> , 2022, 10, 27. | 2.0 | 2 |
| 2 | Two-particle coalescence conditions revisited. <i>Molecular Physics</i> , 2022, 120, . | 1.7 | 2 |
| 3 | The effect of uncertainty on building blocks in molecules. <i>Journal of Chemical Physics</i> , 2022, 156, . | 3.0 | 2 |
| 4 | Using the Gini coefficient to characterize the shape of computational chemistry error distributions. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1. | 1.4 | 5 |
| 5 | Was Pauling Mistaken about Metals?. <i>Molecules</i> , 2021, 26, 1930. | 3.8 | 3 |
| 6 | Challenges for large scale simulation: general discussion. <i>Faraday Discussions</i> , 2020, 224, 309-332. | 3.2 | 2 |
| 7 | New density-functional approximations and beyond: general discussion. <i>Faraday Discussions</i> , 2020, 224, 166-200. | 3.2 | 1 |
| 8 | Strong correlation in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020, 224, 373-381. | 3.2 | 2 |
| 9 | New approaches to study excited states in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020, 224, 483-508. | 3.2 | 2 |
| 10 | Concluding remarks for the new horizons in density functional theory Faraday Discussion. <i>Faraday Discussions</i> , 2020, 224, 509-514. | 3.2 | 1 |
| 11 | Models and corrections: Range separation for electronic interactionâ€”Lessons from density functional theory. <i>Journal of Chemical Physics</i> , 2020, 153, 160901. | 3.0 | 12 |
| 12 | Probabilistic performance estimators for computational chemistry methods: Systematic improvement probability and ranking probability matrix. II. Applications. <i>Journal of Chemical Physics</i> , 2020, 152, 164109. | 3.0 | 7 |
| 13 | Probabilistic performance estimators for computational chemistry methods: Systematic improvement probability and ranking probability matrix. I. Theory. <i>Journal of Chemical Physics</i> , 2020, 152, 164108. | 3.0 | 13 |
| 14 | Acknowledging User Requirements for Accuracy in Computational Chemistry Benchmarks. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1042-1045. | 1.2 | 4 |
| 15 | Impact of non-normal error distributions on the benchmarking and ranking of quantum machine learning models. <i>Machine Learning: Science and Technology</i> , 2020, 1, 035011. | 5.0 | 16 |
| 16 | Excitation energies from GÃ¶rlingâ€™Levy perturbation theory along the range-separated adiabatic connection. <i>Molecular Physics</i> , 2018, 116, 1443-1451. | 1.7 | 5 |
| 17 | Range-separated density-functional theory applied to the beryllium dimer and trimer. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1. | 1.4 | 2 |
| 18 | Curing basis-set convergence of wave-function theory using density-functional theory: A systematically improvable approach. <i>Journal of Chemical Physics</i> , 2018, 149, 194301. | 3.0 | 33 |

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|----|--|-----|-----------|
| 19 | Probabilistic performance estimators for computational chemistry methods: The empirical cumulative distribution function of absolute errors. <i>Journal of Chemical Physics</i> , 2018, 148, 241707. | 3.0 | 32 |
| 20 | Chemical Bonding and Interpretation of Time-Dependent Electronic Processes with Maximum Probability Domains. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2018, 34, 528-536. | 4.9 | 4 |
| 21 | Absence of proof for the Hohenberg-Kohn theorem for a Hamiltonian linear in the magnetic field. <i>Molecular Physics</i> , 2017, 115, 13-15. | 1.7 | 3 |
| 22 | When does a functional correctly describe both the structure and the energy of the transition state?. <i>Journal of Molecular Modeling</i> , 2017, 23, 65. | 1.8 | 5 |
| 23 | On the Use of Benchmarks for Multiple Properties. <i>Computation</i> , 2016, 4, 20. | 2.0 | 7 |
| 24 | Exchange-Correlation Functionals via Local Interpolation along the Adiabatic Connection. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2598-2610. | 5.3 | 40 |
| 25 | Smooth models for the Coulomb potential. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1. | 1.4 | 9 |
| 26 | Alternative Representations of the Correlation Energy in Density-Functional Theory: A Kinetic Energy Based Adiabatic Connection. <i>Journal of the Chinese Chemical Society</i> , 2016, 63, 121-128. | 1.4 | 7 |
| 27 | Excited states from range-separated density-functional perturbation theory. <i>Molecular Physics</i> , 2015, 113, 1740-1749. | 1.7 | 12 |
| 28 | Prediction Uncertainty of Density Functional Approximations for Properties of Crystals with Cubic Symmetry. <i>Journal of Physical Chemistry A</i> , 2015, 119, 5288-5304. | 2.5 | 78 |
| 29 | Calculating excitation energies by extrapolation along adiabatic connections. <i>Physical Review A</i> , 2015, 91, . | 2.5 | 14 |
| 30 | Maximum probability domains for the analysis of the microscopic structure of liquids. <i>Journal of Chemical Physics</i> , 2015, 142, 064117. | 3.0 | 3 |
| 31 | Six questions on topology in theoretical chemistry. <i>Computational and Theoretical Chemistry</i> , 2015, 1053, 2-16. | 2.5 | 99 |
| 32 | Towards a systematic way to correct density functional approximations. <i>Journal of Chemical Physics</i> , 2014, 140, 18A509. | 3.0 | 12 |
| 33 | Excitation energies along a range-separated adiabatic connection. <i>Journal of Chemical Physics</i> , 2014, 141, 044123. | 3.0 | 17 |
| 34 | Atoms and bonds in molecules and chemical explanations. <i>Foundations of Chemistry</i> , 2014, 16, 3-26. | 1.1 | 17 |
| 35 | The Bond Analysis Techniques (ELF and Maximum Probability Domains) Application to a Family of Models Relevant to Bio-Inorganic Chemistry. <i>Structure and Bonding</i> , 2013, , 119-141. | 1.0 | 19 |
| 36 | Electronic excitations from a linear-response range-separated hybrid scheme. <i>Molecular Physics</i> , 2013, 111, 1219-1234. | 1.7 | 23 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | A multiconfigurational hybrid density-functional theory. <i>Journal of Chemical Physics</i> , 2012, 137, 044104. | 3.0 | 77 |
| 38 | Understanding Maximum Probability Domains with Simple Models. <i>Progress in Theoretical Chemistry and Physics</i> , 2012, , 173-184. | 0.2 | 8 |
| 39 | Maximum Probability Domains in Crystals: The Rock-Salt Structure. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13139-13148. | 2.5 | 22 |
| 40 | Double-hybrid density-functional theory made rigorous. <i>Journal of Chemical Physics</i> , 2011, 134, 064113. | 3.0 | 165 |
| 41 | Maximum Probability Domains in the Solidâ€State Structures of the Elements: the Diamond Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011, 637, 882-884. | 1.2 | 12 |
| 42 | Correcting model energies by numerically integrating along an adiabatic connection and a link to density functional approximations. <i>Journal of Chemical Physics</i> , 2011, 134, 214108. | 3.0 | 10 |
| 43 | Closed-shell ring coupled cluster doubles theory with range separation applied on weak intermolecular interactions. <i>Journal of Chemical Physics</i> , 2011, 135, 084119. | 3.0 | 85 |
| 44 | Full configuration interaction wave function as a formal solution to the optimized effective potential and Kohnâ€Sham models in finite basis sets. <i>Computational and Theoretical Chemistry</i> , 2010, 943, 90-93. | 1.5 | 3 |
| 45 | Symmetry breaking of relativistic multiconfiguration methods in the nonrelativistic limit. <i>Nonlinearity</i> , 2010, 23, 767-791. | 1.4 | 7 |
| 46 | Constrained-pairing mean-field theory. III. Inclusion of density functional exchange and correlation effects via alternative densities. <i>Journal of Chemical Physics</i> , 2010, 132, 024111. | 3.0 | 30 |
| 47 | Constrained-pairing mean-field theory. IV. Inclusion of corresponding pair constraints and connection to unrestricted Hartreeâ€Fock theory. <i>Journal of Chemical Physics</i> , 2010, 133, 134108. | 3.0 | 19 |
| 48 | Range-separated density-functional theory with random phase approximation applied to noncovalent intermolecular interactions. <i>Journal of Chemical Physics</i> , 2010, 132, 244108. | 3.0 | 119 |
| 49 | Range-separated density-functional theory with the random-phase approximation: Detailed formalism and illustrative applications. <i>Physical Review A</i> , 2010, 82, . | 2.5 | 115 |
| 50 | Adiabatic-Connection Fluctuation-Dissipation Density-Functional Theory Based on Range Separation. <i>Physical Review Letters</i> , 2009, 102, 096404. | 7.8 | 240 |
| 51 | Study of the discontinuity of the exchangeâ€correlation potential in an exactly soluble case. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2410-2415. | 2.0 | 40 |
| 52 | Range separation combined with the Overhauser model: Application to the H ₂ molecule along the dissociation curve. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 1950-1961. | 2.0 | 10 |
| 53 | Locally rangeâ€separated hybrids as linear combinations of rangeâ€separated local hybrids. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2023-2032. | 2.0 | 28 |
| 54 | Is size-consistency possible with density functional approximations?. <i>Chemical Physics</i> , 2009, 356, 91-97. | 1.9 | 43 |

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|----|---|-----|-----------|
| 55 | Potential-Driven Adiabatic Connection in Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 822-826. | 5.3 | 2 |
| 56 | Charge density reconstitution from approximate exchange-correlation holes. <i>Canadian Journal of Chemistry</i> , 2009, 87, 1444-1450. | 1.1 | 14 |
| 57 | Orbital-Free Embedding Effective Potential in Analytically Solvable Cases. <i>Progress in Theoretical Chemistry and Physics</i> , 2009, , 311-326. | 0.2 | 13 |
| 58 | Analytic Models of Domain-Averaged Fermi Holes: A New Tool for the Study of the Nature of Chemical Bonds. <i>Chemistry - A European Journal</i> , 2008, 14, 3338-3345. | 3.3 | 43 |
| 59 | Intracule densities in the strong-interaction limit of density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3440. | 2.8 | 17 |
| 60 | Fragment-Localized Kohn-Sham Orbitals via a Singles Configuration-Interaction Procedure and Application to Local Properties and Intermolecular Energy Decomposition Analysis. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 2020-2029. | 5.3 | 51 |
| 61 | Assessment of a Middle-Range Hybrid Functional. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1254-1262. | 5.3 | 155 |
| 62 | Hybrid functionals with local range separation. <i>Journal of Chemical Physics</i> , 2008, 129, 124103. | 3.0 | 134 |
| 63 | The importance of middle-range Hartree-Fock-type exchange for hybrid density functionals. <i>Journal of Chemical Physics</i> , 2007, 127, 221103. | 3.0 | 152 |
| 64 | Strictly correlated electrons in density-functional theory: A general formulation with applications to spherical densities. <i>Physical Review A</i> , 2007, 75, . | 2.5 | 126 |
| 65 | High-Density Limit of Two-Electron Systems: Results from the Extended Overhauser Approach. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 796-802. | 5.3 | 5 |
| 66 | Maximum probability domains from Quantum Monte Carlo calculations. <i>Journal of Computational Chemistry</i> , 2007, 28, 442-454. | 3.3 | 52 |
| 67 | Scaling relations, virial theorem, and energy densities for long-range and short-range density functionals. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 2026-2034. | 2.0 | 21 |
| 68 | A short-range gradient-corrected spin density functional in combination with long-range coupled-cluster methods: Application to alkali-metal rare-gas dimers. <i>Chemical Physics</i> , 2006, 329, 276-282. | 1.9 | 133 |
| 69 | Local density approximation for long-range or for short-range energy functionals?. <i>Computational and Theoretical Chemistry</i> , 2006, 762, 147-150. | 1.5 | 24 |
| 70 | Properties of short-range and long-range correlation energy density functionals from electron-electron coalescence. <i>Physical Review A</i> , 2006, 73, . | 2.5 | 60 |
| 71 | The electron localization function (ELF) and its relatives: interpretations and difficulties. <i>Computational and Theoretical Chemistry</i> , 2005, 727, 127-131. | 1.5 | 144 |
| 72 | Maximal probability domains in linear molecules. <i>Journal of Computational Chemistry</i> , 2005, 26, 455-460. | 3.3 | 36 |

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| 73 | On the significance of ELF basins. <i>Journal of Chemical Sciences</i> , 2005, 117, 473-475. | 1.5 | 63 |
| 74 | Simple model for the spherically and system-averaged pair density: Results for two-electron atoms. <i>Physical Review A</i> , 2005, 71, . | 2.5 | 38 |
| 75 | Exchangeâ€“correlation potentials and local energies per particle along nonlinear adiabatic connections. <i>Molecular Physics</i> , 2005, 103, 2725-2734. | 1.7 | 12 |
| 76 | Short-range exchange and correlation energy density functionals: Beyond the local-density approximation. <i>Journal of Chemical Physics</i> , 2005, 122, 014110. | 3.0 | 120 |
| 77 | van der Waals forces in density functional theory: Perturbational long-range electron-interaction corrections. <i>Physical Review A</i> , 2005, 72, . | 2.5 | 287 |
| 78 | How electrons guard the space: shape optimization with probability distribution criteria. <i>Theoretical Chemistry Accounts</i> , 2004, 111, 373-380. | 1.4 | 80 |
| 79 | Hohenberg-Kohn theory including spin magnetism and magnetic fields. <i>International Journal of Quantum Chemistry</i> , 2004, 100, 20-21. | 2.0 | 31 |
| 80 | Short-range exchange-correlation energy of a uniform electron gas with modified electron-electron interaction. <i>International Journal of Quantum Chemistry</i> , 2004, 100, 1047-1056. | 2.0 | 115 |
| 81 | Long-rangeâ€“short-range separation of the electron-electron interaction in density-functional theory. <i>Physical Review A</i> , 2004, 70, . | 2.5 | 381 |
| 82 | Exchange-correlation energies and correlation holes for some two- and four-electron atoms along a nonlinear adiabatic connection in density functional theory. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 84-93. | 2.0 | 36 |
| 83 | Adiabatic connection approach to density functional theory of electronic systems. <i>International Journal of Quantum Chemistry</i> , 2003, 93, 166-190. | 2.0 | 87 |
| 84 | PROBABILITY DISTRIBUTIONS AND VALENCE SHELLS IN ATOMS. , 2002, , 43-62. | | 23 |
| 85 | Validation and assessment of an accurate approach to the correlation problem in density functional theory: The Krigerâ€“Chenâ€“Iafateâ€“Savin model. <i>Journal of Chemical Physics</i> , 2002, 117, 10465-10473. | 3.0 | 83 |
| 86 | Analysis of the linear response function along the adiabatic connection from the Kohnâ€“Sham to the correlated system. <i>Journal of Chemical Physics</i> , 2001, 115, 6827-6833. | 3.0 | 34 |
| 87 | Bounding the extrapolated correlation energy using $Padi_{\zeta}^{1/2}$ approximants. <i>International Journal of Quantum Chemistry</i> , 2000, 79, 222-234. | 2.0 | 13 |
| 88 | A spectral analysis of the correlation energy. <i>Computational and Theoretical Chemistry</i> , 2000, 527, 121-125. | 1.5 | 2 |
| 89 | On the Electronic Structure of (Phosphino)(silyl)carbenes:â€“ Single-Crystal X-ray Diffraction and ELF Analyses. <i>Journal of the American Chemical Society</i> , 2000, 122, 998-999. | 13.7 | 68 |
| 90 | Extrapolating the correlation energy. <i>Chemical Physics Letters</i> , 1999, 307, 227-234. | 2.6 | 18 |

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| 91 | Correlation energy contributions from low-lying states to density functionals based on an electron gas with a gap. <i>International Journal of Quantum Chemistry</i> , 1999, 75, 885-888. | 2.0 | 20 |
| 92 | Correlation energies for some two- and four-electron systems along the adiabatic connection in density functional theory. <i>Journal of Chemical Physics</i> , 1999, 110, 2828-2835. | 3.0 | 114 |
| 93 | Construction of An Accurate Self-interaction-corrected Correlation Energy Functional Based on An Electron Gas with A Gap. , 1999, , 463-477. | | 122 |
| 94 | Virtual space level shifting and correlation energies. <i>International Journal of Quantum Chemistry</i> , 1998, 69, 581-590. | 2.0 | 143 |
| 95 | A Systematic Failing of Current Density Functionals: Overestimation of Two-Center Three-Electron Bonding Energies. <i>Journal of Physical Chemistry A</i> , 1998, 102, 7872-7877. | 2.5 | 234 |
| 96 | Adiabatic Coupling in the Helium and the Beryllium Series. , 1998, , 69-80. | | 4 |
| 97 | A correlation-energy density functional for multideterminantal wavefunctions. <i>Molecular Physics</i> , 1997, 91, 527-536. | 1.7 | 149 |
| 98 | The analysis of "empty space" in the PdGa ₅ structure. <i>Journal of Alloys and Compounds</i> , 1997, 255, 203-208. | 5.5 | 42 |
| 99 | ELF: The Electron Localization Function. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1808-1832. | 4.4 | 1,929 |
| 100 | Topological Bifurcation Analysis: Electronic Structure of CH ₅ ⁺ . <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2077-2080. | 4.4 | 97 |
| 101 | Die Elektronenlokalisierungsfunktion ELF. <i>Angewandte Chemie</i> , 1997, 109, 1892-1918. | 2.0 | 190 |
| 102 | Topologische Bifurkationsanalyse: Elektronenstruktur von CH ₅ ⁺ . <i>Angewandte Chemie</i> , 1997, 109, 2168-2170. | 2.0 | 7 |
| 103 | Chemische Bindung anschaulich: die Elektronen-Lokalisierungsfunktion. <i>Chemie in Unserer Zeit</i> , 1997, 31, 110-120. | 0.1 | 62 |
| 104 | Influence of core-valence separation of electron localization function. <i>Journal of Computational Chemistry</i> , 1997, 18, 1431-1439. | 3.3 | 118 |
| 105 | On-top pair-density interpretation of spin density functional theory, with applications to magnetism. <i>International Journal of Quantum Chemistry</i> , 1997, 61, 197-205. | 2.0 | 97 |
| 106 | Combining long-range configuration interaction with short-range density functionals. <i>Chemical Physics Letters</i> , 1997, 275, 151-160. | 2.6 | 681 |
| 107 | Generation and Characterization of Diphosphene and Triphosphene Radical Anions. <i>Computational Studies on the Structure and Stability of P₃H₃</i> . <i>Inorganic Chemistry</i> , 1996, 35, 2119-2126. | 4.0 | 22 |
| 108 | Beyond the Kohn-Sham Determinant. <i>Recent Advances in Computational</i> , 1995, , 129-153. | 0.8 | 53 |

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| 109 | Density functionals for the Yukawa electron-electron interaction. <i>International Journal of Quantum Chemistry</i> , 1995, 56, 327-332. | 2.0 | 261 |
| 110 | An ab initio investigation of the molecules X ₂ , CuX, Cu ₂ X and CuX ₂ (X = Si, Ge, and Sn). <i>Computational and Theoretical Chemistry</i> , 1995, 339, 67-81. | 1.5 | 24 |
| 111 | Escaping the symmetry dilemma through a pair-density interpretation of spin-density functional theory. <i>Physical Review A</i> , 1995, 51, 4531-4541. | 2.5 | 335 |
| 112 | A new Jastrow factor for atoms and molecules, using two-electron systems as a guiding principle. <i>Journal of Chemical Physics</i> , 1995, 103, 691-697. | 3.0 | 20 |
| 113 | Expression of the exact electron-correlation-energy density functional in terms of first-order density matrices. <i>Physical Review A</i> , 1995, 52, R1805-R1807. | 2.5 | 111 |
| 114 | Transfer of electron correlation from an electron gas to inhomogeneous systems via Jastrow factors. <i>Physical Review A</i> , 1994, 50, 3742-3746. | 2.5 | 6 |
| 115 | A test for the Wilson-Levy correlation energy functional. <i>Chemical Physics Letters</i> , 1994, 217, 566-570. | 2.6 | 16 |
| 116 | A systematic study on the fixed-node and localization error in quantum Monte Carlo calculations with pseudopotentials for group III elements. <i>Chemical Physics Letters</i> , 1994, 222, 274-280. | 2.6 | 12 |
| 117 | Localization of Electrons in Intermetallic Phases Containing Aluminum. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 2069-2073. | 4.4 | 85 |
| 118 | Die Elektronenlokalisierung in aluminiumhaltigen intermetallischen Phasen. <i>Angewandte Chemie</i> , 1994, 106, 2147-2150. | 2.0 | 22 |
| 119 | Die Elektronen-Lokalisierungs-Funktion in closo-Bor-Clustern. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1993, 619, 437-441. | 1.2 | 56 |
| 120 | Reduction of the computational effort in quantum Monte Carlo calculations with pseudopotentials through a change of the projection operators. <i>Journal of Chemical Physics</i> , 1992, 97, 459-463. | 3.0 | 14 |
| 121 | On the Bonding in Carbosilanes. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 185-187. | 4.4 | 137 |
| 122 | Electron Localization in Solid-State Structures of the Elements: the Diamond Structure. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 187-188. | 4.4 | 912 |
| 123 | Zur Bindung in Carbosilanen. <i>Angewandte Chemie</i> , 1992, 104, 185-186. | 2.0 | 77 |
| 124 | Die Elektronenlokalisierung in den Festkörperstrukturen der Elemente: die Diamantstruktur. <i>Angewandte Chemie</i> , 1992, 104, 186-188. | 2.0 | 121 |
| 125 | Contribution to the electron distribution analysis. I. Shell structure of atoms. <i>Journal of Chemical Physics</i> , 1991, 95, 1928-1942. | 3.0 | 112 |
| 126 | Correlation Contributions from Density Functionals. , 1991, , 213-230. | | 13 |

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| 127 | Electron affinities of alkaline-earth atoms by means of different density functionals. Physical Review A, 1989, 40, 2163-2165. | 2.5 | 7 |
| 128 | Results obtained with the correlation energy density functionals of becke and Lee, Yang and Parr. Chemical Physics Letters, 1989, 157, 200-206. | 2.6 | 6,521 |
| 129 | Atomic correlation energy differences by means of a polarization potential. Physical Review A, 1988, 38, 483-486. | 2.5 | 8 |
| 130 | Density Functionals for Correlation Energies of Atoms and Molecules. , 1985, , 177-207. | | 76 |
| 131 | On choosing the best density functional approximation. Chemical Modelling, 0, , 168-185. | 0.4 | 38 |