Stefan Goedecker

List of Publications by Year in descending order

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| | | 31902 | 8835 |
|----------|----------------|--------------|----------------|
| 148 | 21,613 | 53 | 145 |
| papers | citations | h-index | g-index |
| | | | |
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| 151 | 151 | 151 | 17455 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
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| 1 | Missing theoretical evidence for conventional room-temperature superconductivity in low-enthalpy structures of carbonaceous sulfur hydrides. Physical Review Materials, 2022, 6, . | 0.9 | 20 |
| 2 | Manifolds of quasi-constant SOAP and ACSF fingerprints and the resulting failure to machine learn four-body interactions. Journal of Chemical Physics, 2022, 156, 034302. | 1.2 | 15 |
| 3 | A fourth-generation high-dimensional neural network potential with accurate electrostatics including non-local charge transfer. Nature Communications, 2021, 12, 398. | 5.8 | 215 |
| 4 | Fingerprint-Based Detection of Non-Local Effects in the Electronic Structure of a Simple Single Component Covalent System. Condensed Matter, 2021, 6, 9. | 0.8 | 10 |
| 5 | New strontium titanate polymorphs under high pressure. Journal of Computational Chemistry, 2021, 42, 699-705. | 1.5 | 8 |
| 6 | An assessment of the structural resolution of various fingerprints commonly used in machine learning. Machine Learning: Science and Technology, 2021, 2, 015018. | 2.4 | 37 |
| 7 | Large-scale structure prediction of near-stoichiometric magnesium oxide based on a machine-learned interatomic potential: Crystalline phases and oxygen-vacancy ordering. Physical Review Materials, 2021, 5, . | 0.9 | 5 |
| 8 | General-Purpose Machine Learning Potentials Capturing Nonlocal Charge Transfer. Accounts of Chemical Research, 2021, 54, 808-817. | 7.6 | 65 |
| 9 | Novel polymorphs and polytypes of lithium chloride from structure predictions based on charge equilibration via neural network technique. Physical Review Materials, 2021, 5, . | 0.9 | 2 |
| 10 | Wet Environment Effects for Ethanol and Water Adsorption on Anatase TiO ₂ (101) Surfaces. Journal of Physical Chemistry C, 2020, 124, 2406-2419. | 1.5 | 24 |
| 11 | Maximum volume simplex method for automatic selection and classification of atomic environments and environment descriptor compression. Journal of Chemical Physics, 2020, 153, 214104. | 1.2 | 4 |
| 12 | Funnel hopping Monte Carlo: An efficient method to overcome broken ergodicity. Journal of Chemical Physics, 2020, 152, 164106. | 1.2 | 7 |
| 13 | Nonexistence of the decahedral <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:msub> <mml:mrow> <mml:mi> Si </mml:mi> mathvariant="normal">H </mml:mrow> <mml:mn> 20 </mml:mn> </mml:msub> cage: Levinthal's paradox revisited. Physical Review B. 2020. 101</mml:math | nrow> <m 1,1</m | ml:mn>20 </td |
| 14 | Flexibilities of wavelets as a computational basis set for large-scale electronic structure calculations. Journal of Chemical Physics, 2020, 152, 194110. | 1.2 | 60 |
| 15 | Surface reconstructions and premelting of the (100) CaF ₂ surface. Physical Chemistry Chemical Physics, 2019, 21, 16270-16281. | 1.3 | 17 |
| 16 | Computational acceleration of prospective dopant discovery in cuprous iodide. Physical Chemistry Chemical Physics, 2019, 21, 18839-18849. | 1.3 | 34 |
| 17 | Controlled switching of a single CuPc molecule on Cu(111) at low temperature. Physical Review B, 2019, 100, . | 1.1 | 6 |
| 18 | Evidence for carbon clusters present near thermal gate oxides affecting the electronic band structure in SiC-MOSFET. Applied Physics Letters, 2019, 115, . | 1.5 | 19 |

| # | Article | IF | CITATIONS |
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| 19 | Solvent-Aware Interfaces in Continuum Solvation. Journal of Chemical Theory and Computation, 2019, 15, 1996-2009. | 2.3 | 43 |
| 20 | Divalent Path to Enhance p-Type Conductivity in a SnO Transparent Semiconductor. Journal of Physical Chemistry C, 2019, 123, 14909-14913. | 1.5 | 5 |
| 21 | Surfactant-assisted synthesis of large Cu-BTC MOF single crystals and their potential utilization as photodetectors. CrystEngComm, 2019, 21, 3948-3953. | 1.3 | 19 |
| 22 | Atomic Friction: Anisotropy and Asymmetry Effects. Tribology Letters, 2019, 67, 1. | 1.2 | 12 |
| 23 | Direct observation of single organic molecules grafted on the surface of a silicon nanowire. Scientific Reports, 2019, 9, 5647. | 1.6 | 10 |
| 24 | Rare-earth magnetic nitride perovskites. JPhys Materials, 2019, 2, 025003. | 1.8 | 25 |
| 25 | Finding Reaction Pathways with Optimal Atomic Index Mappings. Physical Review Letters, 2019, 123, 206102. | 2.9 | 10 |
| 26 | Affordable and accurate large-scale hybrid-functional calculations on GPU-accelerated supercomputers. Journal of Physics Condensed Matter, 2018, 30, 095901. | 0.7 | 16 |
| 27 | Stable structures of exohedrally decorated C60-fullerenes. Carbon, 2018, 129, 847-853. | 5.4 | 27 |
| 28 | New Route for "Cold-Passivation―of Defects in Tin-Based Oxides. Journal of Physical Chemistry C, 2018, 122, 17612-17620. | 1.5 | 15 |
| 29 | Influence of an external electric field on the potential-energy surface of alkali-metal-decorated C60. Physical Review A, 2018, 97, . | 1.0 | 2 |
| 30 | Emergence of hidden phases of methylammonium lead iodide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:r upon compression. Physical Review Materials, 2018, 2, .</mml:r </mml:msub></mml:mrow></mml:math | ni> Ql9 <td>ml:nsi><mml:r< td=""></mml:r<></td> | ml :ns i> <mml:r< td=""></mml:r<> |
| 31 | Hydroxyl-Induced Partial Charge States of Single Porphyrins on Titania Rutile. Journal of Physical Chemistry C, 2017, 121, 3607-3614. | 1.5 | 23 |
| 32 | Accelerated materials design approaches based on structural classification: application to low enthalpy high pressure phases of SH3 and SeH3. Novel Superconducting Materials, 2017, 3, . | 0.8 | 5 |
| 33 | Soft-Sphere Continuum Solvation in Electronic-Structure Calculations. Journal of Chemical Theory and Computation, 2017, 13, 3829-3845. | 2.3 | 76 |
| 34 | The Elephant in the Room of Density Functional Theory Calculations. Journal of Physical Chemistry Letters, 2017, 8, 1449-1457. | 2.1 | 88 |
| 35 | High accuracy and transferability of a neural network potential through charge equilibration for calcium fluoride. Physical Review B, 2017, 95, . | 1.1 | 68 |
| 36 | Precise engineering of quantum dot array coupling through their barrier widths. Nature Communications, 2017, 8, 787. | 5.8 | 55 |

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| 37 | Metastable exohedrally decorated Borospherene B40. Scientific Reports, 2017, 7, 7618. | 1.6 | 15 |
| 38 | Two-Dimensional Hexagonal Sheet of TiO ₂ . Chemistry of Materials, 2017, 29, 8594-8603. | 3.2 | 69 |
| 39 | Emergence of superconductivity in doped H2O ice at high pressure. Scientific Reports, 2017, 7, 6825. | 1.6 | 23 |
| 40 | Computational Screening of Useful Hole–Electron Dopants in SnO ₂ . Chemistry of Materials, 2017, 29, 10095-10103. | 3.2 | 12 |
| 41 | Interplay between structure and superconductivity: Metastable phases of phosphorus under pressure. Physical Review Materials, 2017, 1, . | 0.9 | 48 |
| 42 | Surface reconstruction of fluorites in vacuum and aqueous environment. Physical Review Materials, 2017, 1, . | 0.9 | 15 |
| 43 | A generalized Poisson and Poisson-Boltzmann solver for electrostatic environments. Journal of Chemical Physics, 2016, 144, 014103. | 1.2 | 88 |
| 44 | A fingerprint based metric for measuring similarities of crystalline structures. Journal of Chemical Physics, 2016, 144, 034203. | 1.2 | 93 |
| 45 | Computationally efficient characterization of potential energy surfaces based on fingerprint distances. Journal of Chemical Physics, 2016, 145, 034101. | 1.2 | 10 |
| 46 | Discovery of a Superconducting Cu–Bi Intermetallic Compound by Highâ€Pressure Synthesis. Angewandte Chemie - International Edition, 2016, 55, 13446-13449. | 7.2 | 46 |
| 47 | Organometallic Bonding in an Ullmann-Type On-Surface Chemical Reaction Studied by High-Resolution Atomic Force Microscopy. Small, 2016, 12, 5303-5311. | 5.2 | 52 |
| 48 | Superconductivity in metastable phases of phosphorus-hydride compounds under high pressure. Physical Review B, 2016, 93, . | 1.1 | 125 |
| 49 | Ultralow Thermal Conductivity in Full Heusler Semiconductors. Physical Review Letters, 2016, 117, 046602. | 2.9 | 163 |
| 50 | Discovery of a Superconducting Cu–Bi Intermetallic Compound by Highâ€Pressure Synthesis. Angewandte Chemie, 2016, 128, 13644-13647. | 1.6 | 14 |
| 51 | Reproducibility in density functional theory calculations of solids. Science, 2016, 351, aad3000. | 6.0 | 1,113 |
| 52 | ZnSb Polymorphs with Improved Thermoelectric Properties. Chemistry of Materials, 2016, 28, 2912-2920. | 3.2 | 16 |
| 53 | Novel crystal structures for lithium–silicon alloy predicted by minima hopping method. Journal of Alloys and Compounds, 2016, 655, 147-154. | 2.8 | 21 |
| 54 | Interatomic potentials for ionic systems with density functional accuracy based on charge densities obtained by a neural network. Physical Review B, 2015, 92, . | 1.1 | 179 |

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| 55 | Low-density silicon allotropes for photovoltaic applications. Physical Review B, 2015, 92, . | 1.1 | 70 |
| 56 | Chain-like structure elements in Ni40Ta60 metallic glasses observed by scanning tunneling microscopy. Scientific Reports, 2015, 5, 13143. | 1.6 | 10 |
| 57 | Extended Halogen Bonding between Fully Fluorinated Aromatic Molecules. ACS Nano, 2015, 9, 2574-2583. | 7.3 | 119 |
| 58 | Identification of Novel Cu, Ag, and Au Ternary Oxides from Global Structural Prediction. Chemistry of Materials, 2015, 27, 4562-4573. | 3.2 | 56 |
| 59 | Stabilized quasi-Newton optimization of noisy potential energy surfaces. Journal of Chemical Physics, 2015, 142, 034112. | 1.2 | 23 |
| 60 | Novel phases of lithium-aluminum binaries from first-principles structural search. Journal of Chemical Physics, 2015, 142, 024710. | 1.2 | 14 |
| 61 | Accurate and efficient linear scaling DFT calculations with universal applicability. Physical Chemistry Chemical Physics, 2015, 17, 31360-31370. | 1.3 | 158 |
| 62 | Characterization of individual molecular adsorption geometries by atomic force microscopy: Cu-TCPP on rutile TiO2 (110). Journal of Chemical Physics, 2015, 143, 094202. | 1.2 | 28 |
| 63 | Minima hopping guided path search: An efficient method for finding complex chemical reaction pathways. Journal of Chemical Physics, 2014, 140, 214102. | 1.2 | 38 |
| 64 | Comment on "Towards Direct-Gap Silicon Phases by the Inverse Band Structure Design Approach― Physical Review Letters, 2014, 112, 199801. | 2.9 | 2 |
| 65 | Energetic and vibrational analysis of hydrogenated silicon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>m</mml:mi>vacancies above saturation. Physical Review B, 2014, 90, .</mml:math | 1.1 | 3 |
| 66 | First-principles predicted low-energy structures of NaSc(BH4)4. Journal of Chemical Physics, 2014, 140, 124708. | 1.2 | 25 |
| 67 | Quantifying the atomic-level mechanics of single long physisorbed molecular chains. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3968-3972. | 3.3 | 59 |
| 68 | Daubechies wavelets for linear scaling density functional theory. Journal of Chemical Physics, 2014, 140, 204110. | 1.2 | 140 |
| 69 | Boron aggregation in the ground states of boron-carbon fullerenes. Physical Review B, 2014, 89, . | 1.1 | 11 |
| 70 | lsomerism and Structural Fluxionality in the Au ₂₆ and Au ₂₆ [–] Nanoclusters. ACS Nano, 2014, 8, 7413-7422. | 7.3 | 42 |
| 71 | Relation between the Dynamics of Glassy Clusters and Characteristic Features of their Energy Landscape. Physical Review Letters, 2014, 112, . | 2.9 | 27 |
| 72 | Carbon structures and defect planes in diamond at high pressure. Physical Review B, 2013, 88, . | 1.1 | 32 |

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| 73 | Obtaining Detailed Structural Information about Supramolecular Systems on Surfaces by Combining High-Resolution Force Microscopy with <i>ab Initio</i> Calculations. ACS Nano, 2013, 7, 9098-9105. | 7.3 | 56 |
| 74 | Prediction of a novel monoclinic carbon allotrope. European Physical Journal B, 2013, 86, 1. | 0.6 | 13 |
| 75 | Conducting Boron Sheets Formed by the Reconstruction of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>α</mml:mi>-Boron (111) Surface. Physical Review Letters, 2013, 111, 136101.</mml:math | 2.9 | 40 |
| 76 | Norm-conserving pseudopotentials with chemical accuracy compared to all-electron calculations. Journal of Chemical Physics, 2013, 138, 104109. | 1.2 | 95 |
| 77 | Comment on "Topological Insulators in Ternary Compounds with a Honeycomb Lattice― Physical Review Letters, 2013, 110, 129701. | 2.9 | 4 |
| 78 | A customized 3D GPU Poisson solver for free boundary conditions. Computer Physics Communications, 2013, 184, 1815-1820. | 3.0 | 11 |
| 79 | Sodium–gold binaries: novel structures for ionic compounds from an <i>ab initio</i> structural search. New Journal of Physics, 2013, 15, 115007. | 1.2 | 58 |
| 80 | Thermodynamic stability of alkali-metal–zinc double-cation borohydrides at low temperatures. Physical Review B, 2013, 88, . | 1.1 | 29 |
| 81 | Low-Energy Polymeric Phases of Alanates. Physical Review Letters, 2013, 110, 135502. | 2.9 | 38 |
| 82 | The crystal structure of p-type transparent conductive oxide CuBO2. MRS Communications, 2013, 3, 157-160. | 0.8 | 12 |
| 83 | Metrics for measuring distances in configuration spaces. Journal of Chemical Physics, 2013, 139, 184118. | 1.2 | 116 |
| 84 | Multiscale approach for simulations of Kelvin probe force microscopy with atomic resolution. Physical Review B, 2012, 86, . | 1.1 | 59 |
| 85 | Low-energy structures of zinc borohydride Zn(BH <mml:math) 0.784314="" 1="" 10="" 277<br="" 50="" etqq1="" if="" ij="" overlock="" rgb1="">xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow< td=""><td>1d (xmins 1.1</td><td>27</td></mml:mrow<></mml:msub></mml:math)> | 1d (xmins 1.1 | 27 |
| 86 | /> <mmhann>2 </mmhann> . Physical Review B, 2012, 86, . Low-energy silicon allotropes with strong absorption in the visible for photovoltaic applications. Physical Review B, 2012, 86, . | 1.1 | 138 |
| 87 | High-Pressure Structures of Disilane and Their Superconducting Properties. Physical Review Letters, 2012, 108, 117004. | 2.9 | 86 |
| 88 | Raman activity of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mi>s</mml:mi><mml:msup><mml:mi>p</mml:mi><mml:mn><!--<br-->allotropes under pressure: A density functional theory study. Physical Review B, 2012, 85, .</mml:mn></mml:msup></mml:mrow></mml:math> | /m m t:msu | p> 2∦ mml:mro |
| 89 | Novel Structural Motifs in Low Energy Phases of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:msub> <mml:mi>LiAlH </mml:mi> <mml:mn> 4 </mml:mn> </mml:msub> . Physical Review Letters. 2012. 108. 205505.</mml:math | 2.9 | 43 |
| 90 | Crystal Structure of Cold Compressed Graphite. Physical Review Letters, 2012, 108, 065501. | 2.9 | 292 |

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| 91 | Low-energy boron fullerenes: Role of disorder and potential synthesis pathways. Physical Review B, 2011, 83, . | 1.1 | 37 |
| 92 | Growth and Structural Properties of Mg _{<i>N</i>} (<i>N</i> = 10–56) Clusters: Density Functional Theory Study. Journal of Physical Chemistry A, 2011, 115, 12307-12314. | 1.1 | 52 |
| 93 | Chemical Wiring and Soldering toward All-Molecule Electronic Circuitry. Journal of the American Chemical Society, 2011, 133, 8227-8233. | 6.6 | 93 |
| 94 | An enhanced splined saddle method. Journal of Chemical Physics, 2011, 135, 014108. | 1.2 | 16 |
| 95 | Energy landscape of silicon tetraâ€interstitials using an optimized classical potential. Physica Status Solidi (B): Basic Research, 2011, 248, 2050-2055. | 0.7 | 14 |
| 96 | Daubechies wavelets for high performance electronic structure calculations: The BigDFT project. Comptes Rendus - Mecanique, 2011, 339, 149-164. | 2.1 | 53 |
| 97 | Energy Landscape of Fullerene Materials: A Comparison of Boron to Boron Nitride and Carbon. Physical Review Letters, 2011, 106, 225502. | 2.9 | 169 |
| 98 | Density functional investigations on structural and electronic properties of anionic and neutral sodium clusters Na _{<i>N</i>} (<i>N</i> = 40–147): comparison with the experimental photoelectron spectra. Journal of Physics Condensed Matter, 2011, 23, 405303. | 0.7 | 5 |
| 99 | Efficient moves for global geometry optimization methods and their application to binary systems. Journal of Chemical Physics, 2011, 134, 044106. | 1.2 | 65 |
| 100 | The effect of ionization on the global minima of small and medium sized silicon and magnesium clusters. Journal of Chemical Physics, 2011, 134, 124302. | 1.2 | 25 |
| 101 | Energy landscape of silicon systems and its description by force fields, tight binding schemes, density functional methods, and quantum Monte Carlo methods. Physical Review B, 2010, 81, . | 1.1 | 31 |
| 102 | Crystal structure prediction using the minima hopping method. Journal of Chemical Physics, 2010, 133, 224104. | 1.2 | 253 |
| 103 | Structural metastability of endohedral silicon fullerenes. Physical Review B, 2010, 81, . | 1.1 | 39 |
| 104 | Connecting single conductive polymers to a single functional molecule. , 2010, , . | | 0 |
| 105 | Structure of large gold clusters obtained by global optimization using the minima hopping method. Physical Review B, 2009, 79, . | 1.1 | 62 |
| 106 | Adsorption of small NaCl clusters on surfaces of silicon nanostructures. Nanotechnology, 2009, 20, 445301. | 1.3 | 11 |
| 107 | ABINIT: First-principles approach to material and nanosystem properties. Computer Physics Communications, 2009, 180, 2582-2615. | 3.0 | 2,297 |
| 108 | Structure and stability of semiconductor tip apexes for atomic force microscopy. Nanotechnology, 2009, 20, 264015. | 1.3 | 59 |

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| 109 | The performance of minima hopping and evolutionary algorithms for cluster structure prediction. Journal of Chemical Physics, 2009, 130, 144108. | 1.2 | 83 |
| 110 | A Minima Hopping Study of All-Atom Protein Folding and Structure Prediction. Journal of Physical Chemistry B, 2009, 113, 7315-7321. | 1.2 | 37 |
| 111 | Bell-Evans-Polanyi principle for molecular dynamics trajectories and its implications for global optimization. Physical Review E, 2008, 77, 056707. | 0.8 | 67 |
| 112 | Daubechies wavelets as a basis set for density functional pseudopotential calculations. Journal of Chemical Physics, 2008, 129, 014109. | 1.2 | 289 |
| 113 | Ubiquitous Mechanisms of Energy Dissipation in Noncontact Atomic Force Microscopy. Physical Review Letters, 2008, 100, 236106. | 2.9 | 53 |
| 114 | A particle-particle, particle-density algorithm for the calculation of electrostatic interactions of particles with slablike geometry. Journal of Chemical Physics, 2007, 127, 224102. | 1.2 | 15 |
| 115 | Questioning the existence of a unique ground-state structure for Si clusters. Physical Review B, 2007, 75, . | 1.1 | 62 |
| 116 | An efficient numerical quadrature for the calculation of the potential energy of wavefunctions expressed in the Daubechies wavelet basis. Journal of Computational Physics, 2006, 217, 312-339. | 1.9 | 26 |
| 117 | Global Minimum Determination of the Born-Oppenheimer Surface within Density Functional Theory. Physical Review Letters, 2005, 95, 055501. | 2.9 | 136 |
| 118 | Minima hopping: An efficient search method for the global minimum of the potential energy surface of complex molecular systems. Journal of Chemical Physics, 2004, 120, 9911-9917. | 1.2 | 697 |
| 119 | An efficient 3-dim FFT for plane wave electronic structure calculations on massively parallel machines composed ofÂmultiprocessor nodes. Computer Physics Communications, 2003, 154, 105-110. | 3.0 | 17 |
| 120 | Linear scaling methods for the solution of schrödinger's equation. Handbook of Numerical Analysis, 2003, 10, 537-570. | 0.9 | 1 |
| 121 | A Fourfold Coordinated Point Defect in Silicon. Physical Review Letters, 2002, 88, 235501. | 2.9 | 102 |
| 122 | Optimization and parallelization of a force field for silicon using OpenMP. Computer Physics Communications, 2002, 148, 124-135. | 3.0 | 18 |
| 123 | Locality properties and Wannier functions for interacting systems. Solid State Communications, 2001, 119, 105-109. | 0.9 | 21 |
| 124 | Tight-Binding Molecular Dynamics of Shock Waves in Methane. Physical Review Letters, 1999, 83, 3896-3899. | 2.9 | 57 |
| 125 | Frequency localization properties of the density matrix and its resulting hypersparsity in a wavelet representation. Physical Review B, 1999, 59, 7270-7273. | 1.1 | 30 |
| 126 | Linear scaling electronic structure methods. Reviews of Modern Physics, 1999, 71, 1085-1123. | 16.4 | 1,247 |

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| 128 | Linear scaling solution of the Coulomb problem using wavelets. Solid State Communications, 1998, 105, 665-669. | 0.9 | 61 |
| 129 | Relativistic separable dual-space Gaussian pseudopotentials from H to Rn. Physical Review B, 1998, 58, 3641-3662. | 1.1 | 3,201 |
| 130 | Solution of Multiscale Partial Differential Equations Using Wavelets. Computers in Physics, 1998, 12, 548. | 0.6 | 35 |
| 131 | Natural Orbital Functional for the Many-Electron Problem. Physical Review Letters, 1998, 81, 866-869. | 2.9 | 224 |
| 132 | Decay properties of the finite-temperature density matrix in metals. Physical Review B, 1998, 58, 3501-3502. | 1.1 | 147 |
| 133 | Critical assessment of the self-interaction-corrected–local-density-functional method and its algorithmic implementation. Physical Review A, 1997, 55, 1765-1771. | 1.0 | 155 |
| 134 | Fast Radix 2, 3, 4, and 5 Kernels for Fast Fourier Transformations on Computers with Overlapping MultiplyAdd Instructions. SIAM Journal of Scientific Computing, 1997, 18, 1605-1611. | 1.3 | 195 |
| 135 | Separable dual-space Gaussian pseudopotentials. Physical Review B, 1996, 54, 1703-1710. | 1.1 | 5,153 |
| 136 | Low Complexity Algorithms for Electronic Structure Calculations. Journal of Computational Physics, 1995, 118, 261-268. | 1.9 | 127 |
| 137 | Tight-binding electronic-structure calculations and tight-binding molecular dynamics with localized orbitals. Physical Review B, 1995, 51, 9455-9464. | 1.1 | 181 |
| 138 | Efficient Linear Scaling Algorithm for Tight-Binding Molecular Dynamics. Physical Review Letters, 1994, 73, 122-125. | 2.9 | 412 |
| 139 | Remark on Algorithms to Find Roots of Polynomials. SIAM Journal of Scientific Computing, 1994, 15, 1059-1063. | 1.3 | 27 |
| 140 | Efficient iterative diagonalization of separable pseudopotential Hamiltonians. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 305-308. | 0.6 | 2 |
| 141 | Rotating a three-dimensional array in an optimal position for vector processing: case study for a three-dimensional fast Fourier transform. Computer Physics Communications, 1993, 76, 294-300. | 3.0 | 35 |
| 142 | Integral representation of the Fermi distribution and its applications in electronic-structure calculations. Physical Review B, 1993, 48, 17573-17575. | 1.1 | 49 |
| 143 | Treatment of semicore states in the linearized augmented-plane-wave method and other linearized electronic-structure methods. Physical Review B, 1993, 47, 9881-9883. | 1.1 | 2 |
| 144 | Operator approach in the linearized augmented-plane-wave method: Efficient electronic-structure calculations including forces. Physical Review B, 1992, 45, 1597-1604. | 1.1 | 40 |

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| 145 | Transferability of pseudopotentials. Physical Review A, 1992, 45, 88-93. | 1.0 | 113 |
| 146 | Comment on â€~â€~Criterion for a good variational wave function''. Physical Review B, 1991, 44, 10365- | 10 86 6. | 4 |
| 147 | Fast iterative diagonalization of nonlocal pseudopotential Hamiltonians using the fast Fourier transformation. Physical Review B, 1990, 41, 3230-3231. | 1.1 | 2 |
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