

Xuecheng Shao

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

450
citations

687220

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713332

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docs citations

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times ranked

502
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Direct-gap semiconducting tri-layer silicene with 29% photovoltaic efficiency. <i>Nano Energy</i> , 2018, 51, 489-495. | 8.2 | 46 |
| 2 | Efficient potential-tuning strategy through p-type doping for designing cathodes with ultrahigh energy density. <i>National Science Review</i> , 2020, 7, 1768-1775. | 4.6 | 43 |
| 3 | ATLAS: A real-space finite-difference implementation of orbital-free density functional theory. <i>Computer Physics Communications</i> , 2016, 200, 87-95. | 3.0 | 42 |
| 4 | Polyethylene Glycol@Na ⁺ Interface of Vanadium Hexacyanoferrate Cathode for Highly Stable Rechargeable Aqueous Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28762-28768. | 4.0 | 41 |
| 5 | A symmetry-orientated divide-and-conquer method for crystal structure prediction. <i>Journal of Chemical Physics</i> , 2022, 156, 014105. | 1.2 | 40 |
| 6 | scpDFTpy: An efficient and object-oriented platform for orbital-free scpDFT simulations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021, 11, . | 6.2 | 34 |
| 7 | High-Pressure Evolution of Unexpected Chemical Bonding and Promising Superconducting Properties of YB ₆ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 27820-27828. | 1.5 | 23 |
| 8 | Large-scale ab initio simulations for periodic system. <i>Computer Physics Communications</i> , 2018, 233, 78-83. | 3.0 | 23 |
| 9 | Electronic Topological Transition in Ag ₂ Te at High-pressure. <i>Scientific Reports</i> , 2015, 5, 14681. | 1.6 | 20 |
| 10 | Pressure-stabilized divalent ozonide CaO ₃ and its impact on Earth's oxygen cycles. <i>Nature Communications</i> , 2020, 11, 4702. | 5.8 | 20 |
| 11 | Structure evolution of chromium-doped boron clusters: toward the formation of endohedral boron cages. <i>RSC Advances</i> , 2019, 9, 2870-2876. | 1.7 | 18 |
| 12 | Revised Huang-Carter nonlocal kinetic energy functional for semiconductors and their surfaces. <i>Physical Review B</i> , 2021, 104, . | 1.1 | 15 |
| 13 | Efficient DFT Solver for Nanoscale Simulations and Beyond. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4134-4139. | 2.1 | 13 |
| 14 | eQE 2.0: Subsystem DFT beyond GGA functionals. <i>Computer Physics Communications</i> , 2021, 269, 108122. | 3.0 | 13 |
| 15 | An automated predictor for identifying transition states in solids. <i>Npj Computational Materials</i> , 2020, 6, . | 3.5 | 12 |
| 16 | Ab initio electronic structure calculations using a real-space Chebyshev-filtered subspace iteration method. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 455901. | 0.7 | 11 |
| 17 | First-principles study of high-pressure phase stability and superconductivity of Bi ₄ C ₄ . <i>Physical Review B</i> , 2019, 100, . | 1.1 | 9 |
| 18 | GGA-Level Subsystem DFT Achieves Sub-kcal/mol Accuracy Intermolecular Interactions by Mimicking Nonlocal Functionals. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3455-3461. | 2.3 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Nonlocal and nonadiabatic Pauli potential for time-dependent orbital-free density functional theory. Physical Review B, 2021, 104, . | 1.1 | 8 |
| 20 | O (N log N) scaling method to evaluate the ionâ€“electron potential of crystalline solids. Journal of Chemical Physics, 2016, 145, 184110. | 1.2 | 7 |
| 21 | Many-body van der Waals interactions in wet MoS ₂ surfaces. Electronic Structure, 2022, 4, 024001. | 1.0 | 2 |
| 22 | Stability and mechanical properties of $W_1Mo_xB_{4.2}$ | | |