

Shoutao Zhang

List of Publications by Citations

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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.

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|-------------------|-------------------------|----------------|-----------------|
| 42 papers | 965 citations | 15 h-index | 30 g-index |
| 43 ext. papers | 1,285 ext. citations | 6.2 avg, IF | 4.54 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 42 | TiC Monolayer with High Specific Capacity for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5962-5968 | 16.4 | 152 |
| 41 | Tellurium Hydrides at High Pressures: High-Temperature Superconductors. <i>Physical Review Letters</i> , 2016 , 116, 057002 | 7.4 | 104 |
| 40 | Two-Dimensional PC with Direct Band Gap and Anisotropic Carrier Mobility. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1599-1605 | 16.4 | 76 |
| 39 | Phase Diagram and High-Temperature Superconductivity of Compressed Selenium Hydrides. <i>Scientific Reports</i> , 2015 , 5, 15433 | 4.9 | 56 |
| 38 | Predicted Pressure-Induced Superconducting Transition in Electride Li ₆ P. <i>Physical Review Letters</i> , 2019 , 122, 097002 | 7.4 | 51 |
| 37 | High-Temperature Ferromagnetism in an FeP Monolayer with a Large Magnetic Anisotropy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2733-2738 | 6.4 | 50 |
| 36 | Gold with +4 and +6 Oxidation States in AuF and AuF ₂ . <i>Journal of the American Chemical Society</i> , 2018 , 140, 9545-9550 | 16.4 | 50 |
| 35 | Stable and metallic two-dimensional TaC ₂ as an anode material for lithium-ion battery. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18698-18706 | 13 | 50 |
| 34 | Metallic P3C monolayer as anode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 405-411 | 13 | 49 |
| 33 | Structure and Electronic Properties of FeSH Compound under High Pressure. <i>Inorganic Chemistry</i> , 2016 , 55, 11434-11439 | 5.1 | 35 |
| 32 | Understanding the role of lithium sulfide clusters in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9293-9298 | 13 | 34 |
| 31 | ATLAS: A real-space finite-difference implementation of orbital-free density functional theory. <i>Computer Physics Communications</i> , 2016 , 200, 87-95 | 4.2 | 29 |
| 30 | Pressure-induced stable BeN ₄ as a high-energy density material. <i>Journal of Power Sources</i> , 2017 , 365, 155-161 | 8.9 | 22 |
| 29 | Nonmetallic FeH ₆ under High Pressure. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12022-12028 | 3.8 | 21 |
| 28 | Phase diagram, stability and electronic properties of an FeB system under high pressure: a first principles study. <i>RSC Advances</i> , 2017 , 7, 15986-15991 | 3.7 | 18 |
| 27 | Pressure-Induced Stable Beryllium Peroxide. <i>Inorganic Chemistry</i> , 2017 , 56, 5233-5238 | 5.1 | 15 |
| 26 | Hexagonal BC ₂ N with Remarkably High Hardness. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6801-6807 | 3.8 | 15 |

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| 25 | First-principle optimal local pseudopotentials construction via optimized effective potential method. <i>Journal of Chemical Physics</i> , 2016 , 144, 134108 | 3.9 | 15 |
| 24 | Exploring High-Pressure Structures of N ₂ CO. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27252-27257 | 3.8 | 13 |
| 23 | Crystal Structures and Electronic Properties of Cesium Xenides at High Pressures. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24996-25002 | 3.8 | 12 |
| 22 | Ten-fold coordinated polymorph and metallization of TiO ₂ under high pressure. <i>RSC Advances</i> , 2015 , 5, 54253-54257 | 3.7 | 11 |
| 21 | Silicon Framework-Based Lithium Silicides at High Pressures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16761-7 | 9.5 | 11 |
| 20 | Superconducting boron allotropes. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 8 |
| 19 | Hypervalent Iodine with Linear Chain at High Pressure. <i>Scientific Reports</i> , 2015 , 5, 14393 | 4.9 | 8 |
| 18 | Phase diagrams and electronic properties of B-S and H-B-S systems under high pressure. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 7 |
| 17 | Hard and superconducting cubic boron phase via swarm-intelligence structural prediction driven by a machine-learning potential. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 7 |
| 16 | Unveiling the Role of Oxygen Vacancy in Li ₂ MnO ₃ upon Delithiation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23403-23409 | 3.8 | 6 |
| 15 | Globally stable structures of Li _x Zn (x = 1-4) compounds at high pressures. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4437-43 | 3.6 | 6 |
| 14 | Tetragonal Structure BC ₄ as a Superhard Material. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10119-10123 | 3.3 | 5 |
| 13 | Structural and Superconducting Properties of Tungsten Hydrides Under High Pressure. <i>Frontiers in Physics</i> , 2018 , 6, | 3.9 | 5 |
| 12 | Exploring the metallic phase of N ₂ O under high pressure. <i>RSC Advances</i> , 2015 , 5, 65745-65749 | 3.7 | 4 |
| 11 | Pressure-induced structural changes and elemental dissociation of cadmium and mercury chalcogenides. <i>RSC Advances</i> , 2015 , 5, 104426-104432 | 3.7 | 4 |
| 10 | Achieving high hydrogen evolution reaction activity of a MoC monolayer. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 26189-26199 | 3.6 | 4 |
| 9 | Fabrication of Alkali Metal Boride: Honeycomb-Like Structured NaB ₄ with High Hardness and Excellent Electrical Conductivity. <i>Advanced Functional Materials</i> , 2021 , 31, 2110872 | 15.6 | 2 |
| 8 | Structural and electronic properties of tungsten oxides under high pressures. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 085403 | 1.8 | 2 |

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| 7 | Superconductive Sodium Carbides with Pentagon Carbon at High Pressures. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5850-5856 | 6.4 | 2 |
| 6 | Pressure-stabilized GdN ₆ with an armchair-antiarmchair structure as a high energy density material. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16751-16758 | 13 | 2 |
| 5 | Multi-mode plasmonic resonance broadband LWIR metamaterial absorber based on lossy metal ring.. <i>Optics Express</i> , 2022 , 30, 473-483 | 3.3 | 2 |
| 4 | Unconventional stable stoichiometry of vanadium peroxide. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11460-11466 | 3.6 | 1 |
| 3 | Crystal structures and superconductivity of lithium and fluorine implanted gold hydrides under high pressures. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 21544-21553 | 3.6 | 1 |
| 2 | Emerging Yttrium Phosphides with Tetrahedron Phosphorus and Superconductivity under High Pressures. <i>Chemistry - A European Journal</i> , 2021 , 27, 17420-17427 | 4.8 | 0 |
| 1 | Pressure-Driven Ne-Bearing Polynitrides with Ultrahigh Energy Density. <i>Chinese Physics Letters</i> , 2022 , 39, 056102 | 1.8 | 0 |