

Yubo Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

3,674
citations

304743

22
h-index

315739

38
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43
all docs

43
docs citations

43
times ranked

6259
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Accurate first-principles structures and energies of diversely bonded systems from an efficient density functional. Nature Chemistry, 2016, 8, 831-836. | 13.6 | 698 |
| 2 | Enhanced performance of light-controlled conductive switching in hybrid cuprous oxide/reduced graphene oxide (Cu ₂ O/rGO) nanocomposites. Optics Letters, 2017, 42, 911. | 3.3 | 551 |
| 3 | Enhanced photoresponse of self-powered perovskite photodetector based on ZnO nanoparticles decorated CsPbBr ₃ films. Solar Energy Materials and Solar Cells, 2017, 172, 341-346. | 6.2 | 408 |
| 4 | High-performance Pseudocubic Thermoelectric Materials from Non-cubic Chalcopyrite Compounds. Advanced Materials, 2014, 26, 3848-3853. | 21.0 | 269 |
| 5 | Theoretical and experimental investigation of highly photocatalytic performance of CuInZnS nanoporous structure for removing the NO gas. Journal of Catalysis, 2018, 357, 100-107. | 6.2 | 214 |
| 6 | High intrinsic carrier mobility and photon absorption in the perovskite CH ₃ NH ₃ PbI ₃ . Physical Chemistry Chemical Physics, 2015, 17, 11516-11520. | 2.8 | 182 |
| 7 | Efficient first-principles prediction of solid stability: Towards chemical accuracy. Npj Computational Materials, 2018, 4, . | 8.7 | 157 |
| 8 | Comparative first-principles studies of prototypical ferroelectric materials by LDA, GGA, and SCAN meta-GGA. Physical Review B, 2017, 96, . | 3.2 | 156 |
| 9 | Comparative study of structural and electronic properties of Cu-based multinary semiconductors. Physical Review B, 2011, 84, . | 3.2 | 95 |
| 10 | An accurate first-principles treatment of doping-dependent electronic structure of high-temperature cuprate superconductors. Communications Physics, 2018, 1, . | 5.3 | 94 |
| 11 | Antiferromagnetic ground state of LaMnO_2 : A parameter-free <i>ab initio</i> description. Physical Review B, 2018, 98, . | 8.2 | 80 |
| 12 | Structural properties and quasiparticle band structures of Cu-based quaternary semiconductors for photovoltaic applications. Journal of Applied Physics, 2012, 111, . | 2.5 | 67 |
| 13 | Screened Coulomb interaction of localized electrons in solids from first principles. Physical Review B, 2012, 85, . | 3.2 | 62 |
| 14 | Competing stripe and magnetic phases in the cuprates from first principles. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 68-72. | 7.1 | 61 |
| 15 | Regulating Exciton-Phonon Coupling to Achieve a Near-Unity Photoluminescence Quantum Yield in One-Dimensional Hybrid Metal Halides. Advanced Science, 2021, 8, e2100786. | 11.2 | 61 |
| 16 | Electronic structure of antifluorite Cu ₂ X (X = S, Se, Te) within the modified Becke-Johnson potential plus an on-site Coulomb <i>U</i> . Journal of Chemical Physics, 2014, 140, 074702. | 3.0 | 58 |
| 17 | VO_2 : Orbital competition, magnetism, and phase stability. Physical Review B, 2012, 86, . | 3.2 | 53 |
| 18 | Electronic properties of energy harvesting Cu-chalcogenides: <i>d</i> hybridization and <i>d</i> -electron localization. Computational Materials Science, 2015, 108, 239-249. | 3.0 | 49 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Symmetry-breaking polymorphous descriptions for correlated materials without interelectronic U . Physical Review B, 2020, 102, . | 3.2 | 48 |
| 20 | Near-edge band structures and band gaps of Cu-based semiconductors predicted by the modified Becke-Johnson potential plus an on-site Coulomb U . Journal of Chemical Physics, 2013, 139, 184706. | 3.0 | 43 |
| 21 | High photodegradation efficiency of Rhodamine B catalyzed by bismuth silicate nanoparticles. Catalysis Communications, 2013, 39, 65-69. | 3.3 | 33 |
| 22 | Subtlety of TiO ₂ phase stability: Reliability of the density functional theory predictions and persistence of the self-interaction error. Journal of Chemical Physics, 2019, 150, 014105. | 3.0 | 32 |
| 23 | Exceptionally large anomalous Hall effect due to anticrossing of spin-split bands in the antiferromagnetic half-Heusler compound TbPtBi. Physical Review B, 2020, 101, . | 3.2 | 24 |
| 24 | First-principles calculation of spin and orbital contributions to magnetically ordered moments in $SrMn_2S_7$. Physical Review B, 2020, 101, . | 3.2 | 23 |
| 25 | Half-Heusler-like compounds with wide continuous compositions and tunable p- to n-type semiconducting thermoelectrics. Nature Communications, 2022, 13, 35. | 12.8 | 20 |
| 26 | Pinning down high-performance Cu-chalcogenides as thin-film solar cell absorbers: A successive screening approach. Journal of Chemical Physics, 2016, 144, 194706. | 3.0 | 18 |
| 27 | Thermodynamic Ground States of Multifunctional Metal Dodecaborides. Chemistry of Materials, 2019, 31, 1075-1083. | 6.7 | 15 |
| 28 | Effects of biaxial strain on the improper multiferroicity in $LuFeO_3$ films studied using the restrained thermal expansion method. Physical Review B, 2017, 95, . | 3.2 | 14 |
| 29 | Spinon excitations in the quasi-one-dimensional $SrCu_2S_7$ chain compound. Physical Review B, 2020, 101, . | 3.2 | 14 |
| 30 | Tunable catalytic activity of cobalt-intercalated layered MnO ₂ for water oxidation through confinement and local ordering. Journal of Catalysis, 2019, 374, 143-149. | 6.2 | 13 |
| 31 | First-principles study of the halide-passivation effects on the electronic structures of CdSe quantum dots. RSC Advances, 2014, 4, 19302-19309. | 3.6 | 12 |
| 32 | Sensitivity of the electronic and magnetic structures of cuprate superconductors to density functional approximations. Npj Computational Materials, 2022, 8, . | 8.7 | 12 |
| 33 | Remarkable band-gap renormalization via dimensionality of the layered material $SrCu_3B_2O_{10}$. Physical Review Applied, 2021, 14, . | 3.8 | 9 |
| 34 | Localization in the SCAN meta-generalized gradient approximation functional leading to broken symmetry ground states for graphene and benzene. Physical Chemistry Chemical Physics, 2020, 22, 19585-19591. | 2.8 | 8 |
| 35 | Density functional theory. , 2019, , 119-159. | | 7 |
| 36 | Critical role of magnetic moments in heavy-fermion materials: Revisiting SmB_6 . Physical Review B, 2022, 105, . | 3.0 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Quasiparticle band structures of II-VI semiconductors containing semicore states in the approach. Solid State Communications, 2012, 152, 588-592. | 1.9 | 5 |
| 38 | Magnetic oxygen in transition metal oxides: A case study of Ba ₂ CoO ₄ . Journal of Physics and Chemistry of Solids, 2021, 150, 109803. | 4.0 | 2 |
| 39 | Strong excitonic effect in organic-inorganic hybrid crystals. Solid State Communications, 2012, 152, 1259-1262. | 1.9 | 1 |
| 40 | Geometry strategy for engineering the recombination possibility of excitons in nanowires. Nanoscale, 2016, 8, 7318-7325. | 5.6 | 0 |
| 41 | Identification of a monoclinic metallic state in VO ₂ from a modified first-principles approach. Modern Physics Letters B, 2019, 33, 1950148. | 1.9 | 0 |