# Sheng Gong

List of Publications by Year
in descending order



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|---|---|---|---|
| 19 papers | 1,353 citations | 759233 12 h-index | 794594 19 g-index |
| 20 all docs | 20 docs citations | 20 times ranked | 2059 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Charting lattice thermal conductivity for inorganic crystals and discovering rare earth chalcogenides for thermoelectrics. Energy and Environmental Science, 2021, 14, 3559-3566. | 30.8 | 51 |
| 2 | Identifying key parameters for predicting materials with low defect generation efficiency by machine learning. Computational Materials Science, 2021, 191, 110306. | 3.0 | 2 |
| 3 | Screening and Understanding Li Adsorption on Two-Dimensional Metallic Materials by Learning Physics and Physics-Simplified Learning. Jacs Au, 2021, 1, 1904-1914. | 7.9 | 12 |
| 4 | Electronic band structure phase diagram of 3D carbon allotropes from machine learning. Diamond and Related Materials, 2020, 108, 107990. | 3.9 | 7 |
| 5 | Predicting charge density distribution of materials using a local-environment-based graph convolutional network. Physical Review B, 2019, 100, . | 3.2 | 31 |
| 6 | A high-pressure induced stable phase of Li<sub>2</sub>MnSiO<sub>4</sub> as an effective poly-anion cathode material from simulations. Journal of Materials Chemistry A, 2019, 7, 16406-16413. | 10.3 | 6 |
| 7 | Lithium Chlorides and Bromides as Promising Solidâ€State Chemistries for Fast Ion Conductors with Good Electrochemical Stability. Angewandte Chemie, 2019, 131, 8123-8127. | 2.0 | 27 |
| 8 | Lithium Chlorides and Bromides as Promising Solidâ€State Chemistries for Fast Ion Conductors with Good Electrochemical Stability. Angewandte Chemie - International Edition, 2019, 58, 8039-8043. | 13.8 | 322 |
| 9 | Classifying superheavy elements by machine learning. Physical Review A, 2019, 99, . | 2.5 | 12 |
| 10 | Co-doped 1T-MoS2 nanosheets embedded in N, S-doped carbon nanobowls for high-rate and ultra-stable sodium-ion batteries. Nano Research, 2019, 12, 2218-2223. | 10.4 | 88 |
| 11 | Sulfur/Oxygen Codoped Porous Hard Carbon Microspheres for Highâ€Performance Potassiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1800171. | 19.5 | 363 |
| 12 | 2D carbon sheets with negative Gaussian curvature assembled from pentagonal carbon nanoflakes. Physical Chemistry Chemical Physics, 2018, 20, 9123-9129. | 2.8 | 6 |
| 13 | C3B monolayer as an anchoring material for lithium-sulfur batteries. Carbon, 2018, 129, 38-44. | 10.3 | 105 |
| 14 | Hydrogenated Na<sub>2</sub>Ti<sub>3</sub>O<sub>7</sub> Epitaxially Grown on Flexible N-Doped Carbon Sponge for Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 37974-37980. | 8.0 | 45 |
| 15 | Zero-strain K<sub>0.6</sub>Mn<sub>1</sub>F<sub>2.7</sub> hollow nanocubes for ultrastable potassium ion storage. Energy and Environmental Science, 2018, 11, 3033-3042. | 30.8 | 87 |
| 16 | Discovery of a high-pressure phase of rutile-like CoO<sub>2</sub> and its potential as a cathode material. Journal of Materials Chemistry A, 2018, 6, 18449-18457. | 10.3 | 9 |
| 17 | Graphdiyne as an ideal monolayer coating material for lithium-ion battery cathodes with ultralow areal density and ultrafast Li penetration. Journal of Materials Chemistry A, 2018, 6, 12630-12636. | 10.3 | 24 |
| 18 | Ground-State Structure of YN<sub>2</sub> Monolayer Identified by Global Search. Journal of Physical Chemistry C, 2017, 121, 10258-10264. | 3.1 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Boron-Doped Graphene as a Promising Anode Material for Potassium-Ion Batteries with a Large Capacity, High Rate Performance, and Good Cycling Stability. Journal of Physical Chemistry C, 2017, 121, 24418-24424. | 3.1 | 118 |