# Xingfeng He

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9089043/publications.pdf

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|---|---|---|---|
| 19 papers | 6,492 citations | 516561 16 h-index | 794469 19 g-index |
| 20 all docs | 20 docs citations | 20 times ranked | 5930 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Negating interfacial impedance in garnet-based solid-state Li metal batteries. Nature Materials, 2017, 16, 572-579. | 13.3 | 1,583 |
| 2 | Origin of Outstanding Stability in the Lithium Solid Electrolyte Materials: Insights from Thermodynamic Analyses Based on First-Principles Calculations. ACS Applied Materials & Interfaces, 2015, 7, 23685-23693. | 4.0 | 1,314 |
| 3 | Electrochemical Stability of Li<sub>10</sub>GeP<sub>2</sub>S<sub>12</sub> and Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub> Solid Electrolytes. Advanced Energy Materials, 2016, 6, 1501590. | 10.2 | 781 |
| 4 | First principles study on electrochemical and chemical stability of solid electrolyteâ€“electrode interfaces in all-solid-state Li-ion batteries. Journal of Materials Chemistry A, 2016, 4, 3253-3266. | 5.2 | 748 |
| 5 | Origin of fast ion diffusion in super-ionic conductors. Nature Communications, 2017, 8, 15893. | 5.8 | 570 |
| 6 | Computation-Accelerated Design of Materials and Interfaces for All-Solid-State Lithium-Ion Batteries. Joule, 2018, 2, 2016-2046. | 11.7 | 266 |
| 7 | Superâ€Aligned Carbon Nanotube Films as Current Collectors for Lightweight and Flexible Lithium Ion Batteries. Advanced Functional Materials, 2013, 23, 846-853. | 7.8 | 258 |
| 8 | Statistical variances of diffusional properties from ab initio molecular dynamics simulations. Npj Computational Materials, 2018, 4, . | 3.5 | 240 |
| 9 | Strategies Based on Nitride Materials Chemistry to Stabilize Li Metal Anode. Advanced Science, 2017, 4, 1600517. | 5.6 | 185 |
| 10 | Unsupervised discovery of solid-state lithium ion conductors. Nature Communications, 2019, 10, 5260. | 5.8 | 150 |
| 11 | Accelerated materials design of Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub> oxygen ionic conductors based on first principles calculations. Physical Chemistry Chemical Physics, 2015, 17, 18035-18044. | 1.3 | 104 |
| 12 | Crystal Structural Framework of Lithium Superâ€Ionic Conductors. Advanced Energy Materials, 2019, 9, 1902078. | 10.2 | 93 |
| 13 | Hybrid super-aligned carbon nanotube/carbon black conductive networks: AÂstrategy to improve both electrical conductivity and capacity for lithium ionÂbatteries. Journal of Power Sources, 2013, 233, 209-215. | 4.0 | 66 |
| 14 | Enhanced rate capabilities of Co3O4/carbon nanotube anodes for lithium ion battery applications. Journal of Materials Chemistry A, 2013, 1, 11121. | 5.2 | 50 |
| 15 | Computationâ€Guided Design of LiTaSiO<sub>5</sub>, a New Lithium Ionic Conductor with Sphene Structure. Advanced Energy Materials, 2019, 9, 1803821. | 10.2 | 35 |
| 16 | First-Principles Study of Oxyhydride Hâ€“ Ion Conductors: Toward Facile Anion Conduction in Oxide-Based Materials. ACS Applied Energy Materials, 2018, 1, 1626-1634. | 2.5 | 26 |
| 17 | First principles hybrid functional study of small polarons in doped SrCeO3 perovskite: towards computation design of materials with tailored polaron. Ionics, 2018, 24, 1139-1151. | 1.2 | 12 |
| 18 | Li<sub>15</sub>P<sub>4</sub>S<sub>16</sub>Cl<sub>3</sub>, a Lithium Chlorothiophosphate as a Solid-State Ionic Conductor. Inorganic Chemistry, 2020, 59, 226-234. | 1.9 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Lithium Superâ€Ionic Conductors: Crystal Structural Framework of Lithium Superâ€Ionic Conductors (Adv. Energy Mater. 43/2019). Advanced Energy Materials, 2019, 9, 1970169. | 10.2 | 2 |