# Rui Xu

List of Publications by Year
in descending order



| 31 | 3,859 | 304368 22 | 454577 30 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 33 | 33 | 33 | 3478 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Artificial Interphases for Highly Stable Lithium Metal Anode. Matter, 2019, 1, 317-344. | 5.0 | 508 |
| 2 | Artificial Softâ€“Rigid Protective Layer for Dendriteâ€Free Lithium Metal Anode. Advanced Functional Materials, 2018, 28, 1705838. | 7.8 | 470 |
| 3 | Regulating the Inner Helmholtz Plane for Stable Solid Electrolyte Interphase on Lithium Metal Anodes. Journal of the American Chemical Society, 2019, 141, 9422-9429. | 6.6 | 429 |
| 4 | Controlling Dendrite Growth in Solid-State Electrolytes. ACS Energy Letters, 2020, 5, 833-843. | 8.8 | 322 |
| 5 | Rational design of two-dimensional nanomaterials for lithiumâ€“sulfur batteries. Energy and Environmental Science, 2020, 13, 1049-1075. | 15.6 | 285 |
| 6 | Toward Critical Electrode/Electrolyte Interfaces in Rechargeable Batteries. Advanced Functional Materials, 2020, 30, 1909887. | 7.8 | 251 |
| 7 | Dualâ€Phase Singleâ€Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries. Advanced Materials, 2019, 31, e1808392. | 11.1 | 224 |
| 8 | A review on the failure and regulation of solid electrolyte interphase in lithium batteries. Journal of Energy Chemistry, 2021, 59, 306-319. | 7.1 | 183 |
| 9 | Nonâ€Solvating and Lowâ€Dielectricity Cosolvent for Anionâ€Derived Solid Electrolyte Interphases in Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 11442-11447. | 7.2 | 169 |
| 10 | Plating/Stripping Behavior of Actual Lithium Metal Anode. Advanced Energy Materials, 2019, 9, 1902254. | 10.2 | 168 |
| 11 | Identifying the Critical Anionâ€“Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithiumâ€Metal Anode Interface. Angewandte Chemie - International Edition, 2021, 60, 4215-4220. | 7.2 | 145 |
| 12 | Rapid Lithium Diffusion in Order@Disorder Pathways for Fastâ€Charging Graphite Anodes. Small Structures, 2020, 1, 2000010. | 6.9 | 130 |
| 13 | A bifunctional ethylene-vinyl acetate copolymer protective layer for dendrites-free lithium metal anodes. Journal of Energy Chemistry, 2020, 48, 203-207. | 7.1 | 68 |
| 14 | Safe Lithiumâ€Metal Anodes for Liâ^'O<sub>2</sub> Batteries: From Fundamental Chemistry to Advanced Characterization and Effective Protection. Batteries and Supercaps, 2019, 2, 638-658. | 2.4 | 67 |
| 15 | Quantification of the Dynamic Interface Evolution in Highâ€Efficiency Working Liâ€Metal Batteries. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 66 |
| 16 | Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries. Advanced Materials, 2021, 33, e2105962. | 11.1 | 59 |
| 17 | The reduction of interfacial transfer barrier of Li ions enabled by inorganics-rich solid-electrolyte interphase. Energy Storage Materials, 2020, 28, 401-406. | 9.5 | 55 |
| 18 | Two-dimensional vermiculite separator for lithium sulfur batteries. Chinese Chemical Letters, 2017, 28, 2235-2238. | 4.8 | 54 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 4.5â€…V Highâ€Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode. Angewandte Chemie - International Edition, 2019, 58, 15235-15238. | 7.2 | 47 |
| 20 | Competitive Solid-Electrolyte Interphase Formation on Working Lithium Anodes. Trends in Chemistry, 2021, 3, 5-14. | 4.4 | 34 |
| 21 | A Toolbox of Reference Electrodes for Lithium Batteries. Advanced Functional Materials, 2022, 32, . | 7.8 | 27 |
| 22 | Identifying the Critical Anionâ€“Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithiumâ€Metal Anode Interface. Angewandte Chemie, 2021, 133, 4261-4266. | 1.6 | 25 |
| 23 | Nonâ€Solvating and Lowâ€Dielectricity Cosolvent for Anionâ€Derived Solid Electrolyte Interphases in Lithium Metal Batteries. Angewandte Chemie, 2021, 133, 11543-11548. | 1.6 | 19 |
| 24 | Review on nanomaterials for nextâ€generation batteries with lithium metal anodes. Nano Select, 2020, 1, 94-110. | 1.9 | 14 |
| 25 | Quantification of the Dynamic Interface Evolution in Highâ€Efficiency Working Liâ€Metal Batteries. Angewandte Chemie, 2022, 134, . | 1.6 | 13 |
| 26 | Lithium Metal Anodes: Artificial Softâ€“Rigid Protective Layer for Dendriteâ€Free Lithium Metal Anode (Adv. Funct. Mater. 8/2018). Advanced Functional Materials, 2018, 28, 1870049. | 7.8 | 12 |
| 27 | 4.5â€…V Highâ€Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode. Angewandte Chemie, 2019, 131, 15379-15382. | 1.6 | 7 |
| 28 | Designing and Demystifying the Lithium Metal Interface toward Highly Reversible Batteries (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 11.1 | 5 |
| 29 | Lithiumâ€Metal Anodes: Dualâ€Phase Singleâ€Ion Pathway Interfaces for Robust Lithium Metal in Working Batteries (Adv. Mater. 19/2019). Advanced Materials, 2019, 31, 1970135. | 11.1 | 1 |
| 30 | Innentitelbild: 4.5â€…V Highâ€Voltage Rechargeable Batteries Enabled by the Reduction of Polarization on the Lithium Metal Anode (Angew. Chem. 43/2019). Angewandte Chemie, 2019, 131, 15306-15306. | 1.6 | 0 |
| 31 | RÃ¼cktitelbild: Identifying the Critical Anionâ€“Cation Coordination to Regulate the Electric Double Layer for an Efficient Lithiumâ€Metal Anode Interface (Angew. Chem. 8/2021). Angewandte Chemie, 2021, 133, 4428-4428. | 1.6 | 0 |