# Yun-Hui Huang

List of Publications by Year
in descending order



| 69 | 9,961 | 57758 44 | 91884 69 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 69 | 69 | 69 | 11110 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Insight into the Fading Mechanism of the Solidâ€Conversion Sulfur Cathodes and Designing Long Cycle Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2022, 12, 2102774. | 19.5 | 31 |
| 2 | é”,ç¡«ç”µæ±ç»¼å•æ€§èƒ½åŒ–æ–‡ç–¥. Chinese Science Bulletin, 2022, , . | 0.7 | 1 |
| 3 | Solid/Quasiâ€Solid Phase Conversion of Sulfur in Lithiumâ€“Sulfur Battery. Small, 2022, 18, e2106970. | 10.0 | 21 |
| 4 | Optimizing the operation strategy of solid-conversion sulfur cathodes for achieving high total capacity contribution throughout the lifespan. Journal of Power Sources, 2022, 543, 231837. | 7.8 | 2 |
| 5 | Bioâ€Derived Materials Achieving High Performance in Alkali Metalâ€“Chalcogen Batteries. Advanced Functional Materials, 2021, 31, 2008354. | 14.9 | 13 |
| 6 | In situ protection of a sulfur cathode and a lithium anode via adopting a fluorinated electrolyte for stable lithium-sulfur batteries. Science China Materials, 2021, 64, 2127-2138. | 6.3 | 12 |
| 7 | High performance cathode material based on Na3V2(PO4)2F3 and Na3V2(PO4)3 for sodium-ion batteries. Energy Storage Materials, 2020, 25, 724-730. | 18.0 | 100 |
| 8 | N/P-Dual-Doped Carbon-Coated Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>O<sub>2</sub>F Microspheres as a High-Performance Cathode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 3670-3680. | 8.0 | 63 |
| 9 | Stabilizing Na<sub>3</sub>Zr<sub>2</sub>Si<sub>2</sub>PO<sub>12</sub>/Na Interfacial Performance by Introducing a Clean and Na-Deficient Surface. Chemistry of Materials, 2020, 32, 3970-3979. | 6.7 | 72 |
| 10 | Realizing an Applicable â€œSolid â†' Solidâ€•Cathode Process via a Transplantable Solid Electrolyte Interface for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 29830-29837. | 8.0 | 36 |
| 11 | Confining Silicon Nanoparticles within Freestanding Multichannel Carbon Fibers for High-Performance Li-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 5214-5218. | 5.1 | 17 |
| 12 | Co/N co-doped graphene-like nanocarbon for highly efficient oxygen reduction electrocatalyst. Science China Materials, 2019, 62, 359-367. | 6.3 | 11 |
| 13 | Ca-doped Na2Zn2TeO6 layered sodium conductor for all-solid-state sodium-ion batteries. Electrochimica Acta, 2019, 298, 121-126. | 5.2 | 40 |
| 14 | Heteroatomâ€Doped Carbon Materials: Synthesis, Mechanism, and Application for Sodiumâ€Ion Batteries. Small Methods, 2019, 3, 1800323. | 8.6 | 203 |
| 15 | A Dualâ€Insertion Type Sodiumâ€Ion Full Cell Based on Highâ€Quality Ternaryâ€Metal Prussian Blue Analogs. Advanced Energy Materials, 2018, 8, 1702856. | 19.5 | 143 |
| 16 | High-Performance Hard Carbon Anode: Tunable Local Structures and Sodium Storage Mechanism. ACS Applied Energy Materials, 2018, 1, 2295-2305. | 5.1 | 87 |
| 17 | Superior Na-ion storage achieved by Ti substitution in Na3V2(PO4)3. Energy Storage Materials, 2018, 15, 108-115. | 18.0 | 100 |
| 18 | In Situ Exfoliating and Generating Active Sites on Graphene Nanosheets Strongly Coupled with Carbon Fiber toward Selfâ€Standing Bifunctional Cathode for Rechargeable Znâ€“Air Batteries. Advanced Energy Materials, 2018, 8, 1703539. | 19.5 | 137 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A P2â€Type Layered Superionic Conductor Gaâ€Doped Na<sub>2</sub>Zn<sub>2</sub>TeO<sub>6</sub> for Allâ€Solidâ€State Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2018, 24, 1057-1061. | 3.3 | 42 |
| 20 | Polydopamine-Derived Nitrogen-Doped Carbon-Covered Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>F<sub>3</sub> Cathode Material for High-Performance Na-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 36851-36859. | 8.0 | 89 |
| 21 | Hydrogen plasma reduced potassium titanate as a high power and ultralong lifespan anode material for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 22037-22042. | 10.3 | 18 |
| 22 | Defect and pyridinic nitrogen engineering of carbon-based metal-free nanomaterial toward oxygen reduction. Nano Energy, 2018, 52, 307-314. | 16.0 | 176 |
| 23 | Porous NaTi<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>/C Hierarchical Nanofibers for Ultrafast Electrochemical Energy Storage. ACS Applied Materials & Interfaces, 2018, 10, 27039-27046. | 8.0 | 52 |
| 24 | Enhancing Sodium-Ion Storage Behaviors in TiNb<sub>2</sub>O<sub>7</sub> by Mechanical Ball Milling. ACS Applied Materials & Interfaces, 2017, 9, 8696-8703. | 8.0 | 70 |
| 25 | Binder-free Li 3 V 2 (PO 4 ) 3 /C membrane electrode supported on 3D nitrogen-doped carbon fibers for high-performance lithium-ion batteries. Nano Energy, 2017, 34, 111-119. | 16.0 | 85 |
| 26 | Granadilla-Inspired Structure Design for Conversion/Alloy-Reaction Electrode with Integrated Lithium Storage Behaviors. ACS Applied Materials & Interfaces, 2017, 9, 15470-15476. | 8.0 | 11 |
| 27 | A high-voltage honeycomb-layered Na4NiTeO6 as cathode material for Na-ion batteries. Journal of Power Sources, 2017, 360, 319-323. | 7.8 | 37 |
| 28 | Mechanism of Capacity Fade in Sodium Storage and the Strategies of Improvement for FeS<sub>2</sub> Anode. ACS Applied Materials & Interfaces, 2017, 9, 1536-1541. | 8.0 | 77 |
| 29 | Constructing Three-Dimensional Honeycombed Graphene/Silicon Skeletons for High-Performance Li-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 31879-31886. | 8.0 | 50 |
| 30 | Facile Synthesis of Defect-Rich and S/N Co-Doped Graphene-Like Carbon Nanosheets as an Efficient Electrocatalyst for Primary and All-Solid-State Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2017, 9, 24545-24554. | 8.0 | 81 |
| 31 | Synthesis of nanosheet-structured Na3V2(PO4)3/C as high-performance cathode material for sodium ion batteries using anthracite as carbon source. Ceramics International, 2017, 43, 2333-2337. | 4.8 | 35 |
| 32 | In Operando Mechanism Analysis on Nanocrystalline Silicon Anode Material for Reversible and Ultrafast Sodium Storage. Advanced Materials, 2017, 29, 1604708. | 21.0 | 95 |
| 33 | Routes to High Energy Cathodes of Sodiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1501727. | 19.5 | 408 |
| 34 | A Hierarchical N/Sâ€Codoped Carbon Anode Fabricated Facilely from Cellulose/Polyaniline Microspheres for Highâ€Performance Sodiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1501929. | 19.5 | 460 |
| 35 | Si-containing precursors for Si-based anode materials of Li-ion batteries: A review. Energy Storage Materials, 2016, 4, 92-102. | 18.0 | 79 |
| 36 | Binding TiO<sub>2</sub>-B nanosheets with N-doped carbon enables highly durable anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 8172-8179. | 10.3 | 47 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Enhanced electrochemical performance promoted by monolayer graphene and void space in silicon composite anode materials. Nano Energy, 2016, 27, 647-657. | 16.0 | 61 |
| 38 | Effect of Fe-doping followed by C+SiO2 hybrid layer coating on Li3V2(PO4)3 cathode material for lithium-ion batteries. Ceramics International, 2016, 42, 16557-16562. | 4.8 | 11 |
| 39 | TiN as a simple and efficient polysulfide immobilizer for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 17711-17717. | 10.3 | 146 |
| 40 | Integrated Intercalationâ€Based and Interfacial Sodium Storage in Grapheneâ€Wrapped Porous Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> Nanofibers Composite Aerogel. Advanced Energy Materials, 2016, 6, 1600322. | 19.5 | 141 |
| 41 | A Si/C nanocomposite anode by ball milling for highly reversible sodium storage. Electrochemistry Communications, 2016, 70, 8-12. | 4.7 | 66 |
| 42 | Superior rate performance of Li<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> co-modified by Fe-doping and rGO-incorporation. RSC Advances, 2016, 6, 10334-10340. | 3.6 | 30 |
| 43 | Flexible and Binderâ€Free Electrodes of Sb/rGO and Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>/rGO Nanocomposites for Sodiumâ€Ion Batteries. Small, 2015, 11, 3822-3829. | 10.0 | 184 |
| 44 | Sodium storage in Na-rich Na x FeFe(CN) 6 nanocubes. Nano Energy, 2015, 12, 386-393. | 16.0 | 253 |
| 45 | Synthesis and electrochemical performance of Li2FeSiO4/C cathode material using ascorbic acid as an additive. Journal of Solid State Electrochemistry, 2015, 19, 415-421. | 2.5 | 16 |
| 46 | Effects of binders on electrochemical performance of nitrogen-doped carbon nanotube anode in sodium-ion battery. Electrochimica Acta, 2015, 174, 970-977. | 5.2 | 87 |
| 47 | Na+ intercalation pseudocapacitance in graphene-coupled titanium oxide enabling ultra-fast sodium storage and long-term cycling. Nature Communications, 2015, 6, 6929. | 12.8 | 969 |
| 48 | Synthesis and electrochemical performance of Na-modified Li<sub>2</sub>Fe<sub>0.5</sub>Mn<sub>0.5</sub>SiO<sub>4</sub> cathode material for Li-ion batteries. RSC Advances, 2015, 5, 22818-22824. | 3.6 | 10 |
| 49 | Status and prospects in sulfurâ€“carbon composites as cathode materials for rechargeable lithiumâ€“sulfur batteries. Carbon, 2015, 92, 41-63. | 10.3 | 371 |
| 50 | Architectural design and phase engineering of N/B-codoped TiO<sub>2</sub>(B)/anatase nanotube assemblies for high-rate and long-life lithium storage. Journal of Materials Chemistry A, 2015, 3, 22591-22598. | 10.3 | 49 |
| 51 | Insight into the Electrode Mechanism in Lithiumâ€Sulfur Batteries with Ordered Microporous Carbon Confined Sulfur as the Cathode. Advanced Energy Materials, 2014, 4, 1301473. | 19.5 | 418 |
| 52 | Biomass derived hard carbon used as a high performance anode material for sodium ion batteries. Journal of Materials Chemistry A, 2014, 2, 12733. | 10.3 | 582 |
| 53 | Systematic investigation on Cadmium-incorporation in Li2FeSiO4/C cathode material for lithium-ion batteries. Scientific Reports, 2014, 4, 5064. | 3.3 | 37 |
| 54 | Reconstruction of Conformal Nanoscale MnO on Graphene as a Highâ€Capacity and Longâ€Life Anode Material for Lithium Ion Batteries. Advanced Functional Materials, 2013, 23, 2436-2444. | 14.9 | 770 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Porous carbon nanotubes improved sulfur composite cathode for lithium-sulfur battery. Journal of Solid State Electrochemistry, 2013, 17, 1641-1647. | 2.5 | 27 |
| 56 | Controllable synthesis of spherical Li3V2(PO4)3/C cathode material and its electrochemical performance. Electrochimica Acta, 2013, 90, 433-439. | 5.2 | 41 |
| 57 | Evolution of electrochemical performance in Li3V2(PO4)3/C composites caused by cation incorporation. Electrochimica Acta, 2013, 108, 182-190. | 5.2 | 24 |
| 58 | Thermoelectric solid-oxide fuel cell with Ca2Co2O5 as cathode material. RSC Advances, 2013, 3, 2336. | 3.6 | 10 |
| 59 | Dual coreâ€“shell structured sulfur cathode composite synthesized by a one-pot route for lithium sulfur batteries. Journal of Materials Chemistry A, 2013, 1, 1716-1723. | 10.3 | 197 |
| 60 | Acetylene black incorporated three-dimensional porous SnS2 nanoflowers with high performance for lithium storage. RSC Advances, 2013, 3, 3374. | 3.6 | 70 |
| 61 | Coral-like Î±-MnS composites with N-doped carbon as anode materials for high-performance lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 24026. | 6.7 | 134 |
| 62 | Cobalt-based double-perovskite symmetrical electrodes with low thermal expansion for solid oxidefuel cells. Journal of Materials Chemistry, 2012, 22, 225-231. | 6.7 | 90 |
| 63 | Layer-by-layer assembled MoO2â€“graphene thin film as a high-capacity and binder-free anode for lithium-ion batteries. Nanoscale, 2012, 4, 4707. | 5.6 | 127 |
| 64 | Facile synthesis of mesoporous 0.4Li2MnO3Â·0.6LiNi2/3Mn1/3O2 foams with superior performance for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 14964. | 6.7 | 42 |
| 65 | Significantly Improved Electrochemical Performance in Li<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>/C Promoted by SiO<sub>2</sub> Coating for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 12401-12408. | 3.1 | 119 |
| 66 | New Anode Framework for Rechargeable Lithium Batteries. Chemistry of Materials, 2011, 23, 2027-2029. | 6.7 | 360 |
| 67 | Effect of Vanadium Incorporation on Electrochemical Performance of LiFePO<sub>4</sub> for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 13520-13527. | 3.1 | 114 |
| 68 | Development and challenges of LiFePO<sub>4</sub>cathode material for lithium-ion batteries. Energy and Environmental Science, 2011, 4, 269-284. | 30.8 | 1,058 |
| 69 | High-Rate LiFePO<sub>4</sub> Lithium Rechargeable Battery Promoted by Electrochemically Active Polymers. Chemistry of Materials, 2008, 20, 7237-7241. | 6.7 | 346 |