# Kangli Wang

List of Publications by Year
in descending order



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|---|---|---|---|
| 56 papers | 3,821 citations | 136950 32 h-index | 161849 54 g-index |
| 56 all docs | 56 docs citations | 56 times ranked | 4206 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A high performance sulfur-doped disordered carbon anode for sodium ion batteries. Energy and Environmental Science, 2015, 8, 2916-2921. | 30.8 | 535 |
| 2 | A long-life aqueous Zn-ion battery based on Na3V2(PO4)2F3 cathode. Energy Storage Materials, 2018, 15, 14-21. | 18.0 | 402 |
| 3 | Advanced Low-Cost, High-Voltage, Long-Life Aqueous Hybrid Sodium/Zinc Batteries Enabled by a Dendrite-Free Zinc Anode and Concentrated Electrolyte. ACS Applied Materials & Interfaces, 2018, 10, 22059-22066. | 8.0 | 226 |
| 4 | An Ultrastable Presodiated Titanium Disulfide Anode for Aqueous â€œRockingâ€Chairâ€•Zinc Ion Battery. Advanced Energy Materials, 2019, 9, 1900993. | 19.5 | 178 |
| 5 | Surface-dominated storage of heteroatoms-doping hard carbon for sodium-ion batteries. Energy Storage Materials, 2020, 27, 43-50. | 18.0 | 165 |
| 6 | Liquid Metal Electrodes for Energy Storage Batteries. Advanced Energy Materials, 2016, 6, 1600483. | 19.5 | 139 |
| 7 | Controllable construction of 3D-skeleton-carbon coated Na 3 V 2 (PO 4 ) 3 for high-performance sodium ion battery cathode. Nano Energy, 2016, 20, 11-19. | 16.0 | 128 |
| 8 | Highâ€Performance Manganese Hexacyanoferrate with Cubic Structure as Superior Cathode Material for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 1908754. | 14.9 | 126 |
| 9 | TiS<sub>2</sub> as an Advanced Conversion Electrode for Sodiumâ€Ion Batteries with Ultraâ€High Capacity and Longâ€Cycle Life. Advanced Science, 2018, 5, 1801021. | 11.2 | 101 |
| 10 | Tailoring 2D Heteroatomâ€Doped Carbon Nanosheets with Dominated Pseudocapacitive Behaviors Enabling Fast and Highâ€Performance Sodium Storage. Advanced Functional Materials, 2020, 30, 1909907. | 14.9 | 93 |
| 11 | High Performance Liquid Metal Battery with Environmentally Friendly Antimonyâ€“Tin Positive Electrode. ACS Applied Materials & Interfaces, 2016, 8, 12830-12835. | 8.0 | 92 |
| 12 | Poly(vinylidene fluoride)-based hybrid gel polymer electrolytes for additive-free lithium sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 17889-17895. | 10.3 | 91 |
| 13 | Experimental design and theoretical calculation for sulfur-doped carbon nanofibers as a high performance sodium-ion battery anode. Journal of Materials Chemistry A, 2019, 7, 10239-10245. | 10.3 | 91 |
| 14 | Ultrahigh Phosphorus Doping of Carbon for Highâ€Rate Sodium Ion Batteries Anode. Advanced Energy Materials, 2021, 11, 2003911. | 19.5 | 91 |
| 15 | A Low Cost Aqueous Znâ€“S Battery Realizing Ultrahigh Energy Density. Advanced Science, 2020, 7, 2000761. | 11.2 | 86 |
| 16 | A high energy efficiency and long life aqueous Znâ€“I<sub>2</sub> battery. Journal of Materials Chemistry A, 2020, 8, 3785-3794. | 10.3 | 82 |
| 17 | Nickel sulfide nanospheres anchored on reduced graphene oxide in situ doped with sulfur as a high performance anode for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 9322-9328. | 10.3 | 78 |
| 18 | Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>/C synthesized by a facile solid-phase method assisted with agarose as a high-performance cathode for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 10261-10268. | 10.3 | 74 |

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|---|---|---|---|
| 19 | Controllable Electrochemical Synthesis of Copper Sulfides as Sodium-Ion Battery Anodes with Superior Rate Capability and Ultralong Cycle Life. ACS Applied Materials & Interfaces, 2018, 10, 8016-8025. | 8.0 | 73 |
| 20 | Facile Tailoring of Multidimensional Nanostructured Sb for Sodium Storage Applications. ACS Nano, 2019, 13, 9533-9540. | 14.6 | 62 |
| 21 | MoS2@rGO Nanoflakes as High Performance Anode Materials in Sodium Ion Batteries. Scientific Reports, 2017, 7, 7963. | 3.3 | 53 |
| 22 | A two-dimensional hybrid of SbO<sub>x</sub>nanoplates encapsulated by carbon flakes as a high performance sodium storage anode. Journal of Materials Chemistry A, 2017, 5, 1160-1167. | 10.3 | 47 |
| 23 | An in Situ Prepared Covalent Sulfurâ€“Carbon Composite Electrode for High-Performance Room-Temperature Sodiumâ€“Sulfur Batteries. ACS Energy Letters, 2020, 5, 1307-1315. | 17.4 | 46 |
| 24 | Glycol Derived Carbon- TiO2 as Low Cost and High Performance Anode Material for Sodium-Ion Batteries. Scientific Reports, 2017, 7, 43895. | 3.3 | 42 |
| 25 | Nano-embedded microstructured FeS<sub>2</sub>@C as a high capacity and cycling-stable Na-storage anode in an optimized ether-based electrolyte. Journal of Materials Chemistry A, 2018, 6, 24425-24432. | 10.3 | 42 |
| 26 | A polyimideâ€“MWCNTs composite as high performance anode for aqueous Na-ion batteries. RSC Advances, 2016, 6, 53319-53323. | 3.6 | 41 |
| 27 | 3D Spatial Combination of CN Vacancyâ€Mediated NiFeâ€PBA with Nâ€Doped Carbon Nanofibers Network Toward Freeâ€Standing Bifunctional Electrode for Znâ€“Air Batteries. Advanced Science, 2022, 9, e2105925. | 11.2 | 40 |
| 28 | Rational design of yolkâ€“shell silicon dioxide@hollow carbon spheres as advanced Liâ€“S cathode hosts. Nanoscale, 2017, 9, 14881-14887. | 5.6 | 38 |
| 29 | CF<sub>4</sub> Plasmaâ€Generated LiFâ€Li<sub>2</sub>C<sub>2</sub> Artificial Layers for Dendriteâ€Free Lithiumâ€Metal Anodes. Advanced Science, 2022, 9, . | 11.2 | 37 |
| 30 | Layered SnS2 cross-linked by carbon nanotubes as a high performance anode for sodium ion batteries. RSC Advances, 2016, 6, 35197-35202. | 3.6 | 36 |
| 31 | A sodium liquid metal battery based on the multi-cationic electrolyte for grid energy storage. Energy Storage Materials, 2022, 50, 572-579. | 18.0 | 35 |
| 32 | Phosphorus-doped activated carbon as a promising additive for high performance lead carbon batteries. RSC Advances, 2017, 7, 4174-4178. | 3.6 | 33 |
| 33 | Enhanced Na<sup>+</sup> pseudocapacitance in a P, S co-doped carbon anode arising from the surface modification by sulfur and phosphorus with Câ€“Sâ€“P coupling. Journal of Materials Chemistry A, 2020, 8, 422-432. | 10.3 | 33 |
| 34 | Lithium Sulfonate/Carboxylate-Anchored Polyvinyl Alcohol Separators for Lithium Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 18310-18315. | 8.0 | 32 |
| 35 | Controllable electrolytic formation of Ti<sub>2</sub>O as an efficient sulfur host in lithiumâ€“sulfur (Liâ€“S) batteries. Journal of Materials Chemistry A, 2020, 8, 11224-11232. | 10.3 | 32 |
| 36 | Molten salt electrochemical synthesis of sodium titanates as high performance anode materials for sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 16495-16500. | 10.3 | 30 |

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|---|---|---|---|
| 37 | Tuning microstructures of hard carbon for high capacity and rate sodium storage. Chemical Engineering Journal, 2021, 417, 128104. | 12.7 | 30 |
| 38 | Investigation of the mechanism of metalâ€“organic frameworks preventing polysulfide shuttling from the perspective of composition and structure. Journal of Materials Chemistry A, 2020, 8, 6661-6669. | 10.3 | 28 |
| 39 | Highly conjugated poly(N-heteroacene) nanofibers for reversible Na storage with ultra-high capacity and a long cycle life. Journal of Materials Chemistry A, 2018, 6, 18592-18598. | 10.3 | 26 |
| 40 | Utilizing in situ alloying reaction to achieve the self-healing, high energy density and cost-effective Li\|\|Sb liquid metal battery. Journal of Power Sources, 2021, 514, 230578. | 7.8 | 26 |
| 41 | Electrospinning synthesis of Co<sub>3</sub>O<sub>4</sub>@C nanofibers as a high-performance anode for sodium ion batteries. RSC Advances, 2017, 7, 23122-23126. | 3.6 | 22 |
| 42 | Selenium as Extra Binding Site for Sulfur Species in Sulfurized Polyacrylonitrile Cathodes for High Capacity Lithiumâ€Sulfur Batteries. ChemElectroChem, 2019, 6, 1365-1370. | 3.4 | 22 |
| 43 | Battery management system for Liâ€ion battery. Journal of Engineering, 2017, 2017, 1437-1440. | 1.1 | 21 |
| 44 | Thermal Modulation of MOF and Its Application in Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 46792-46799. | 8.0 | 21 |
| 45 | Facile synthesis of an Fe<sub>3</sub>O<sub>4</sub>/FeO/Fe/C composite as a high-performance anode for lithium-ion batteries. RSC Advances, 2016, 6, 89715-89720. | 3.6 | 20 |
| 46 | Crystal water assisting MoS2 nanoflowers for reversible zinc storage. Journal of Alloys and Compounds, 2021, 872, 159599. | 5.5 | 18 |
| 47 | Designing a slope-dominated hybrid nanostructure hard carbon anode for high-safety and high-capacity Na-ion batteries. Journal of Materials Chemistry A, 2020, 8, 22613-22619. | 10.3 | 15 |
| 48 | An in situ self-assembled 3D zincophilic heterogeneous metal layer on a zinc metal surface for dendrite-free aqueous zinc-ion batteries. Sustainable Energy and Fuels, 2021, 5, 5843-5850. | 4.9 | 10 |
| 49 | Low-valence titanium oxides synthesized by electric field control as novel conversion anodes for high performance sodium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 10458-10465. | 10.3 | 8 |
| 50 | Electrochemical Properties and Kinetics of Asymmetric Sodium Benzeneâ€1,2,4â€tricarboxylate as an Anode Material for Sodiumâ€Organic Batteries. ChemElectroChem, 2020, 7, 3517-3521. | 3.4 | 6 |
| 51 | Selfâ€Polymerized Disordered Carbon Enabling High Sodium Storage Performance through Expanded Interlayer Spacing by Bound Sulfur Atoms. ChemElectroChem, 2018, 5, 3206-3212. | 3.4 | 5 |
| 52 | Building High Performance Li-S Batteries by Compositing Nanosized Sulfur and Conductive Adsorbent within MWCNTs. Journal of the Electrochemical Society, 2019, 166, A3401-A3408. | 2.9 | 4 |
| 53 | The insight into promoting sodium storage mechanism of Î±-CrPO4-type NaV3(PO4)3 anode material for sodium-ion batteries. Journal of Power Sources, 2020, 463, 228194. | 7.8 | 4 |
| 54 | Structural and electrochemical characterization of LiMn2O4 and Li1.05Mn1.97Nb0.03O4 with excellent high-temperature cycling stability synthesized by a simple route. Journal of Applied Electrochemistry, 2020, 50, 451-462. | 2.9 | 3 |

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|---|---|---|---|
| 55 | State of Charge Estimation for Liquid Metal Batteries with Gaussian Process Regression Framework. , 2022, , . | | 2 |
| 56 | Accuracy improvement of remaining capacity estimation for energy storage batteries. Journal of Engineering, 2017, 2017, 1833-1837. | 1.1 | 0 |