

# Qi Kang

## List of Publications by Year in descending order

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34  
papers

1,794  
citations

236925

25  
h-index

414414

32  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2128  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high rate capability of 1D/2D polyaniline/titanium carbide (MXene) nanohybrid for advanced asymmetric supercapacitors. Nano Research, 2022, 15, 285-295.	10.4	50
2	Hydrogen-assisted scalable preparation of ultrathin Pt shells onto surfactant-free and uniform Pd nanoparticles for highly efficient oxygen reduction reaction in practical fuel cells. Nano Research, 2022, 15, 1892-1900.	10.4	27
3	Thermo-Optically Designed Scalable Photonic Films with High Thermal Conductivity for Subambient and Above-Ambient Radiative Cooling. Advanced Functional Materials, 2022, 32, 2109542.	14.9	91
4	Construction of Moisture-Stable Lithium Diffusion Controlling Layer toward High Performance Dendrite-Free Lithium Anode. Advanced Functional Materials, 2022, 32, 2110468.	14.9	32
5	Dielectric polymer based electrolytes for high-performance all-solid-state lithium metal batteries. Journal of Energy Chemistry, 2022, 69, 194-204.	12.9	82
6	Self-cleaning of superhydrophobic nanostructured surfaces at low humidity enhanced by vertical electric field. Nano Research, 2022, 15, 4732-4738.	10.4	11
7	Electronic and Potential Synergistic Effects of Surface-Doped P=O Species on Uniform Pd Nanospheres: Breaking the Linear Scaling Relationship toward Electrochemical Oxygen Reduction. ACS Applied Materials & Interfaces, 2022, 14, 14146-14156.	8.0	8
8	Improving stability of MXenes. Nano Research, 2022, 15, 6551-6567.	10.4	87
9	Interface engineering of Zn meal anodes using electrochemically inert Al <sub>2</sub> O <sub>3</sub> protective nanocoatings. Nano Research, 2022, 15, 7227-7233.	10.4	17
10	Rapid, high-efficient and scalable exfoliation of high-quality boron nitride nanosheets and their application in lithium-sulfur batteries. Nano Research, 2021, 14, 2424.	10.4	66
11	Dendrite-free lithium and sodium metal anodes with deep plating/stripping properties for lithium and sodium batteries. , 2021, 3, 153-166.		47
12	Recent advances in anode materials for potassium-ion batteries: A review. Nano Research, 2021, 14, 4442-4470.	10.4	76
13	Spider Web-Inspired Graphene Skeleton-Based High Thermal Conductivity Phase Change Nanocomposites for Battery Thermal Management. Nano-Micro Letters, 2021, 13, 180.	27.0	92
14	Selenium-rich nickel cobalt bimetallic selenides with core-shell architecture enable superior hybrid energy storage devices. Nanoscale, 2020, 12, 4040-4050.	5.6	61
15	Iron oxide encapsulated in nitrogen-rich carbon enabling high-performance lithium-ion capacitor. Science China Materials, 2020, 63, 2289-2302.	6.3	13
16	Vanadium oxide nanorods embed in porous graphene aerogel as high-efficiency polysulfide-trapping-conversion mediator for high performance lithium-sulfur batteries. Chemical Engineering Journal, 2020, 393, 124570.	12.7	47
17	Single-atom catalysis enables long-life, high-energy lithium-sulfur batteries. Nano Research, 2020, 13, 1856-1866.	10.4	257
18	Duplex trapping and charge transfer with polysulfides by a diketopyrrolopyrrole-based organic framework for high-performance lithium-sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 18100-18108.	10.3	57

#	ARTICLE	IF	CITATIONS
19	Nitrogen-doped hollow porous carbon nanotubes for high-sulfur loading Li <sup>+</sup> /S batteries. <i>Electrochimica Acta</i> , 2019, 324, 134849.	5.2	26
20	Synergistic electrocatalysis of polysulfides by a nanostructured VS <sub>4</sub> -carbon nanofiber functional separator for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16812-16820.	10.3	105
21	A high-performance asymmetric supercapacitor based on vanadyl phosphate/carbon nanocomposites and polypyrrole-derived carbon nanowires. <i>Nanoscale</i> , 2018, 10, 3709-3719.	5.6	36
22	Negative differential resistance and hysteresis in graphene-based organic light-emitting devices. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1926-1932.	5.5	18
23	Efficient polysulfide barrier of a graphene aerogel-carbon nanofibers-Ni network for high-energy-density lithium-sulfur batteries with ultrahigh sulfur content. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20926-20938.	10.3	63
24	Carbon Nanotube-Connected Yolk-Shell Carbon Nanopolyhedras with Cobalt and Nitrogen Doping as Sulfur Immobilizers for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 6487-6496.	5.1	29
25	Patterning Islandlike MnO <sub>2</sub> Arrays by Breath-Figure Templates for Flexible Transparent Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27001-27008.	8.0	60
26	Flexible wire-shaped lithium-sulfur batteries with fibrous cathodes assembled via capillary action. <i>Nano Energy</i> , 2017, 33, 325-333.	16.0	62
27	Industrially weavable metal/cotton yarn air electrodes for highly flexible and stable wire-shaped Li <sup>+</sup> /O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3638-3644.	10.3	28
28	Amorphous vanadyl phosphate/graphene composites for high performance supercapacitor electrode. <i>Journal of Power Sources</i> , 2017, 344, 185-194.	7.8	38
29	High rate Li-ion storage properties of MOF-carbonized derivatives coated on MnO nanowires. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1975-1981.	5.9	39
30	A single wire as all-inclusive fully functional supercapacitor. <i>Nano Energy</i> , 2017, 32, 201-208.	16.0	48
31	Synergistic effect of graphene and polypyrrole to enhance the SnO <sub>2</sub> anode performance in lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 9402-9410.	3.6	38
32	NiO nanowall-assisted growth of thick carbon nanofiber layers on metal wires for fiber supercapacitors. <i>Chemical Communications</i> , 2016, 52, 2721-2724.	4.1	46
33	Towards free-standing MoS <sub>2</sub> nanosheet electrocatalysts supported and enhanced by N-doped CNT-graphene foam for hydrogen evolution reaction. <i>RSC Advances</i> , 2015, 5, 55396-55400.	3.6	23
34	Sandwich-Like Holey Graphene/PANI/Graphene Nanohybrid for Ultrahigh-Rate Supercapacitor. <i>ACS Applied Energy Materials</i> , 0, , .	5.1	14