Kun Zhang

List of Publications by Year
in descending order

36 papers	2,832 citations	279701 23 h-index	345118 36 g-index
36 all docs	36 docs citations	36 times ranked	5467 citing authors

#	Article	IF	Citations
1	Retarding the crystallization of PbI₂for highly reproducible planar-structured perovskite solar cells via sequential deposition. Energy and Environmental Science, 2014, 7, 2934-2938.	15.6	807
2	A dopant-free hole-transporting material for efficient and stable perovskite solar cells. Energy and Environmental Science, 2014, 7, 2963-2967.	15.6	668
3	Highly compact TiO₂layer for efficient hole-blocking in perovskite solar cells. Applied Physics Express, 2014, 7, 052301.	1.1	199
4	Comparison of reduction products from graphite oxide and graphene oxide for anode applications in lithium-ion batteries and sodium-ion batteries. Nanoscale, 2017, 9, 2585-2595.	2.8	156
5	Highâ€Performance, Transparent, Dyeâ€Sensitized Solar Cells for Seeâ€Through Photovoltaic Windows. Advanced Energy Materials, 2014, 4, 1301966.	10.2	88
6	Hybrid lithium-ion capacitors with asymmetric graphene electrodes. Journal of Materials Chemistry A, 2017, 5, 13601-13609.	5.2	85
7	Novel Nearâ€Infrared Squaraine Sensitizers for Stable and Efficient Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2014, 24, 3059-3066.	7.8	77
8	Improvement of spectral response by co-sensitizers for high efficiency dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 4812.	5.2	76
9	Interactions between Graphene and Ionic Liquid Electrolyte in Supercapacitors. Electrochimica Acta, 2016, 197, 84-91.	2.6	59
10	A sandwich-like siliconâ€“carbon composite prepared by surface-polymerization for rapid lithium-ion storage. Nano Energy, 2020, 78, 105341.	8.2	54
11	Unique interconnected graphene/SnO₂nanoparticle spherical multilayers for lithium-ion battery applications. Nanoscale, 2017, 9, 4439-4444.	2.8	53
12	Ionic liquid modified graphene for supercapacitors with high rate capability. Electrochimica Acta, 2015, 176, 1441-1446.	2.6	47
13	Layered Siliconâ€Based Nanosheets as Electrode for 4 V Highâ€Performance Supercapacitor. Advanced Functional Materials, 2020, 30, 2002200.	7.8	42
14	Transient charge-masking effect of applied voltage on electrospinning of pure chitosan nanofibers from aqueous solutions. Science and Technology of Advanced Materials, 2012, 13, 015003.	2.8	39
15	Surface ion transfer growth of ternary CdS1â^'xSex quantum dots and their electron transport modulation. Nanoscale, 2012, 4, 7690.	2.8	36
16	Porous carbon nanotube/graphene composites for high-performance supercapacitors. Chemical Physics Letters, 2018, 693, 60-65.	1.2	36
17	High-rate supercapacitor using magnetically aligned graphene. Journal of Power Sources, 2021, 482, 228995.	4.0	34
18	Effects of 4-tert-butylpyridine on the quasi-Fermi levels of TiO2 films in the presence of different cations in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2011, 13, 19310.	1.3	33

#	Article	IF	Citations
19	Production of Few-Layer Graphene via Enhanced High-Pressure Shear Exfoliation in Liquid for Supercapacitor Applications. ACS Applied Nano Materials, 2018, 1, 2877-2884.	2.4	33
20	Coordinated shifts of interfacial energy levels: insight into electron injection in highly efficient dye-sensitized solar cells. Energy and Environmental Science, 2013, 6, 3637.	15.6	31
21	A Novel Organic Sensitizer Combined with a Cobalt Complex Redox Shuttle for Dye-Sensitized Solar Cells. Organic Letters, 2012, 14, 2532-2535.	2.4	26
22	Band alignment by ternary crystalline potential-tuning interlayer for efficient electron injection in quantum dot-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 7004-7014.	5.2	26
23	Enlarging energy density of supercapacitors using unequal graphene electrodes and ionic liquid electrolyte. Electrochimica Acta, 2017, 258, 1053-1058.	2.6	25
24	A novel shortened electrospun nanofiber modified with a â€˜concentratedâ€™ polymer brush. Science and Technology of Advanced Materials, 2011, 12, 015003.	2.8	23
25	Tin Oxide Microspheres with Exposed {101} Facets for Dyeâ€sensitized Solar Cells: Enhanced Photocurrent and Photovoltage. ChemSusChem, 2014, 7, 172-178.	3.6	14
26	Highly reversible lithium storage in a conversion-type ZnCo₂O₄anode promoted by NiCl_{2â^'x}F_xhydrate. Journal of Materials Chemistry A, 2020, 8, 2356-2363.	5.2	11
27	Biomineralization-inspired: rapid preparation of a silicon-based composite as a high-performance lithium-ion battery anode. Journal of Materials Chemistry A, 2021, 9, 11614-11622.	5.2	10
28	Effect of porous structural properties on lithium-ion and sodium-ion storage: illustrated by the example of a micro-mesoporous graphene_{1â^'x}(MoS₂)_xanode. RSC Advances, 2021, 11, 34152-34159.	1.7	8
29	A green strategy for the preparation of a honeycomb-like silicon composite with enhanced lithium storage properties. Nanoscale, 2020, 12, 12849-12855.	2.8	7
30	A highly stable SiOx-based anode enabled by self-assembly with polyelectrolyte. Electrochimica Acta, 2020, 360, 136958.	2.6	6
31	Edge Engineering in 2D Molybdenum Disulfide: Simultaneous Regulation of Lithium and Polysulfides for Stable Lithiumâ€“Sulfur Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2100053.	2.8	6
32	Tin-cobalt bimetals in 2D leaf-like MOF-derived carbon for advanced lithium storage applications. Electrochimica Acta, 2022, 410, 140036.	2.6	5
33	Facile preparation of flexible binder-free graphene electrodes for high-performance supercapacitors. RSC Advances, 2022, 12, 12590-12599.	1.7	5
34	Reduced graphene oxide decorated with crystallized cobalt borate nanoparticles as an anode in lithium ion capacitors. Chemical Physics Letters, 2020, 759, 137964.	1.2	3
35	Unexpected effect of dye's molar extinction coefficient on performance of back contact dye-sensitized solar cells. Applied Physics Letters, 2012, 101, 233905.	1.5	2
36	A novel shortened electrospun nanofiber modified with a 'concentrated' polymer brush. Science and Technology of Advanced Materials, 2011, 12, 015003.	2.8	2