Kai Wang

List of Publications by Year
in descending order

33 papers	3,847 citations	218677 26 h-index	395702 33 g-index
33 all docs	33 docs citations	33 times ranked	5059 citing authors

#	Article	IF	Citations
1	Ultrathin Metallic NbS₂ Nanosheets with Unusual Intercalation Mechanism for Ultraâ€Stable Potassiumâ€Ion Storage. Advanced Functional Materials, 2022, 32, .	14.9	15
2	WO_xâ€Surface Decorated PtNi@Pt Dendritic Nanowires as Efficient pHâ€Universal Hydrogen Evolution Electrocatalysts. Advanced Energy Materials, 2021, 11, 2003192.	19.5	82
3	A highly efficient atomically thin curved PdIr bimetallene electrocatalyst. National Science Review, 2021, 8, nwab019.	9.5	59
4	Emerging Dualâ€Atomicâ€Site Catalysts for Efficient Energy Catalysis. Advanced Materials, 2021, 33, e2102576.	21.0	226
5	Single-atom catalyst for high-performance methanol oxidation. Nature Communications, 2021, 12, 5235.	12.8	113
6	Irâ€Based Alloy Nanoflowers with Optimized Hydrogen Binding Energy as Bifunctional Electrocatalysts for Overall Water Splitting. Small Methods, 2020, 4, 1900129.	8.6	93
7	Designing noble metal single-atom-loaded two-dimension photocatalyst for N2 and CO2 reduction via anion vacancy engineering. Science Bulletin, 2020, 65, 720-725.	9.0	67
8	Metal Single Atom Strategy Greatly Boosts Photocatalytic Methyl Activation and Câ€“C Coupling for the Coproduction of High-Value-Added Multicarbon Compounds and Hydrogen. ACS Catalysis, 2020, 10, 9109-9114.	11.2	47
9	Ultrathin RuRh Alloy Nanosheets Enable High-Performance Lithium-CO2 Battery. Matter, 2020, 2, 1494-1508.	10.0	91
10	Ultrathin RuRh@(RuRh)O₂core@shell nanosheets as stable oxygen evolution electrocatalysts. Journal of Materials Chemistry A, 2020, 8, 15746-15751.	10.3	24
11	BiOCl/ultrathin polyaniline core/shell nanosheets with a sensitization mechanism for efficient visible-light-driven photocatalysis. Science China Materials, 2019, 62, 95-102.	6.3	14
12	Thermolysis of Noble Metal Nanoparticles into Electronâ€Rich Phosphorusâ€Coordinated Noble Metal Single Atoms at Low Temperature. Angewandte Chemie, 2019, 131, 14322-14326.	2.0	28
13	Thermolysis of Noble Metal Nanoparticles into Electronâ€Rich Phosphorusâ€Coordinated Noble Metal Single Atoms at Low Temperature. Angewandte Chemie - International Edition, 2019, 58, 14184-14188.	13.8	136
14	Freestanding film made by necklace-like N-doped hollow carbon with hierarchical pores for high-performance potassium-ion storage. Energy and Environmental Science, 2019, 12, 1605-1612.	30.8	349
15	Ultrathin PtNiM (M = Rh, Os, and Ir) Nanowires as Efficient Fuel Oxidation Electrocatalytic Materials. Advanced Materials, 2019, 31, e1805833.	21.0	223
16	Single-atom cobalt array bound to distorted 1T MoS2 with ensemble effect for hydrogen evolution catalysis. Nature Communications, 2019, 10, 5231.	12.8	371
17	Intermetallic Pd₃Pb Nanoplates Enhance Oxygen Reduction Catalysis with Excellent Methanol Tolerance. Small Methods, 2018, 2, 1700331.	8.6	66
18	Enhanced electron transfer and light absorption on imino polymer capped PdAg nanowire networks for efficient room-temperature dehydrogenation of formic acid. Journal of Materials Chemistry A, 2018, 6, 1979-1984.	10.3	43

#	Article	IF	Citations
19	Enhanced bifunctional fuel cell catalysis via Pd/PtCu core/shell nanoplates. Chemical Communications, 2018, 54, 1315-1318.	4.1	37
20	Iridiumâ€“Tungsten Alloy Nanodendrites as pH-Universal Water-Splitting Electrocatalysts. ACS Central Science, 2018, 4, 1244-1252.	11.3	196
21	3D PtFe Clusters with Cubeâ€inâ€Cube Structure Enhance Oxygen Reduction Catalysis and Electrochemical Sensing. Small Methods, 2018, 2, 1800073.	8.6	34
22	Metallic Grapheneâ€Like VSe₂ Ultrathin Nanosheets: Superior Potassiumâ€Ion Storage and Their Working Mechanism. Advanced Materials, 2018, 30, e1800036.	21.0	341
23	Wrinkled Rh₂P Nanosheets as Superior pHâ€Universal Electrocatalysts for Hydrogen Evolution Catalysis. Advanced Energy Materials, 2018, 8, 1801891.	19.5	116
24	Pistachioâ€Shuckâ€Like MoSe₂/C Core/Shell Nanostructures for Highâ€Performance Potassiumâ€Ion Storage. Advanced Materials, 2018, 30, e1801812.	21.0	297
25	Iridiumâ€Based Multimetallic Porous Hollow Nanocrystals for Efficient Overallâ€Waterâ€Splitting Catalysis. Advanced Materials, 2017, 29, 1703798.	21.0	460
26	Porous ZrNb₂₄O₆₂ nanowires with pseudocapacitive behavior achieve high-performance lithium-ion storage. Journal of Materials Chemistry A, 2017, 5, 22297-22304.	10.3	71
27	Depolarization effects of Li₂FeSiO₄ nanocrystals wrapped in different conductive carbon networks as cathodes for high performance lithium-ion batteries. RSC Advances, 2016, 6, 47723-47729.	3.6	19
28	Soft-contact conductive carbon enabling depolarization of LiFePO4 cathodes to enhance both capacity and rate performances of lithium ion batteries. Journal of Power Sources, 2016, 331, 232-239.	7.8	41
29	Coreâ€“shell nano-FeS₂@N-doped graphene as an advanced cathode material for rechargeable Li-ion batteries. Chemical Communications, 2016, 52, 986-989.	4.1	84
30	Tuning structural stability and lithium-storage properties by d -orbital hybridization substitution in full tetrahedron Li 2 FeSiO 4 nanocrystal. Nano Energy, 2016, 20, 117-125.	16.0	44
31	FeOxand Si nano-dots as dual Li-storage centers bonded with graphene for high performance lithium ion batteries. Nanoscale, 2015, 7, 14344-14350.	5.6	8
32	Fast rechargeable all-solid-state lithium ion batteries with high capacity based on nano-sized Li2FeSiO4 cathode by tuning temperature. Nano Energy, 2015, 16, 112-121.	16.0	37
33	Sn(ii,iv) steric and electronic structure effects enable self-selective doping on Fe/Si-sites of Li2FeSiO4 nanocrystals for high performance lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 24437-24445.	10.3	15