Hong-Kang Wang

List of Publications by Year in Descending Order

98 papers	3,342 citations	34 h-index	54 g-index
102 ext. papers	4,009 ext. citations	8.1 avg, IF	5.83 L-index

#	Paper	IF	Citations
98	Porous graphene-like MoS2/carbon hierarchies for high-performance pseudocapacitive sodium storage. *Sustainable Energy and Fuels*, **2022**, 6, 822-833	5.8	3
97	Encapsulation of selenium in MOF-derived N,O-codoped porous flower-like carbon host for Na-Se batteries. *Chemical Engineering Journal*, **2022**, 430, 132737	14.7	1
96	Phase structure engineering of MnCoO within electrospun carbon nanofibers towards high-performance lithium-ion batteries. *Journal of Colloid and Interface Science*, **2022**, 607, 171-180	9.3	3
95	Dodecylamine coordinated tri-arm CdS nanorod wrapped in intermittent ZnS shell for greatly improved photocatalytic H2 evolution. *Chemical Engineering Journal*, **2022**, 429, 132382	14.7	28
94	Hollow TiNb2O7 Nanospheres with a Carbon Coating as High-Efficiency Anode Materials for Lithium-Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 61-70	8.3	6
93	Polyvinylpyrrolidone regulated synthesis of mesoporous titanium niobium oxide as high-performance anode for lithium-ion batteries. *Journal of Colloid and Interface Science*, **2021**, 608, 1782-1791	9.3	1
92	Activating inverse spinel NiCo2O4 embedded in N-doped carbon nanofibers via Fe substitution for bifunctional oxygen electrocatalysis. *Materials Today Physics*, **2021**, 17, 100353	8	9
91	MOF-Derived CoS/N-Doped Carbon Composite to Induce Short-Chain Sulfur Molecule Generation for Enhanced Sodium-Sulfur Battery Performance. *ACS Applied Materials & Interfaces*, **2021**, 13, 18010-18020	9.5	17
90	Electrospinning synthesis of porous carbon nanofiber supported CoSe2 nanoparticles towards enhanced sodium ion storage. *Materials Chemistry and Physics*, **2021**, 262, 124314	4.4	6
89	Metal-organic framework derived vanadium-doped TiO@carbon nanotablets for high-performance sodium storage. *Journal of Colloid and Interface Science*, **2021**, 604, 188-197	9.3	4
88	Generating Short-Chain Sulfur Suitable for Efficient Sodium–Sulfur Batteries via Atomic Copper Sites on a N,O-Codoped Carbon Composite. *Advanced Energy Materials*, **2021**, 11, 2100989	21.8	18
87	Selenizing CoMoO nanoparticles within electrospun carbon nanofibers towards enhanced sodium storage performance. *Journal of Colloid and Interface Science*, **2021**, 586, 663-672	9.3	4
86	Plate-like carbon-supported Fe3C nanoparticles with superior electrochemical performance. *Rare Metals*, **2021**, 40, 1402-1411	5.5	6
85	Hierarchical Carbon Nanocages Embedding High-loading Sulfur for Catalyzing Oxygen Reduction Reactions. *ChemCatChem*, **2021**, 13, 2045-2052	5.2	1
84	Integrating amorphous vanadium oxide into carbon nanofibers via electrospinning as high-performance anodes for alkaline ion (Li+/Na+/K+) batteries. *Electrochimica Acta*, **2021**, 369, 137711	6.7	11
83	Synthesis of Spherical Carbon-Coated CoP Nanoparticles for High-Performance Lithium-Ion Batteries. *Energy Technology*, **2021**, 9, 2100605	3.5	1
82	Nano Polymorphism-Enabled Redox Electrodes for Rechargeable Batteries. *Advanced Materials*, **2021**, 33, e2004920	24	13

81	Covalent Encapsulation of Sulfur in a MOF-Derived S, N-Doped Porous Carbon Host Realized via the Vapor-Infiltration Method Results in Enhanced Sodium–Sulfur Battery Performance. *Advanced Energy Materials*, **2020**, 10, 2000931	21.8	63
80	Bubble-like Fe-encapsulated N,S-codoped carbon nanofibers as efficient bifunctional oxygen electrocatalysts for robust Zn-air batteries. *Nano Research*, **2020**, 13, 2175-2182	10	23
79	Coaxially Integrating TiO2/MoO3 into Carbon Nanofibers via Electrospinning towards Enhanced Lithium Ion Storage Performance. *ChemistrySelect*, **2020**, 5, 3225-3233	1.8	4
78	Atomic layer deposition of TiO2 shells on CoSe2 nanorods towards enhanced lithium storage performance. *Journal of Alloys and Compounds*, **2020**, 829, 154537	5.7	9
77	Synergizing Phase and Cavity in CoMoO S Yolk-Shell Anodes to Co-Enhance Capacity and Rate Capability in Sodium Storage. *Small*, **2020**, 16, e2002487	11	17
76	Embedding amorphous lithium vanadate into carbon nanofibers by electrospinning as a high-performance anode material for lithium-ion batteries. *Journal of Colloid and Interface Science*, **2020**, 580, 21-29	9.3	17
75	Constructing three-dimensional ordered porous MoS2/C hierarchies for excellent high-rate long-life pseudocapacitive sodium storage. *Chemical Engineering Journal*, **2020**, 397, 125385	14.7	43
74	Space-Confined Synthesis of Ultrasmall SnO2 Nanodots within Ordered Mesoporous Carbon CMK-3 for High-Performance Lithium Ion Batteries. *Energy & Fuels*, **2020**, 34, 7709-7715	4.1	13
73	Porous N-doped carbon nanoflakes supported hybridized SnO/CoO nanocomposites as high-performance anode for lithium-ion batteries. *Journal of Colloid and Interface Science*, **2020**, 560, 546-554	9.3	20
72	Conductive metal–Organic frameworks endow high-efficient oxygen evolution of La0.6Sr0.4Co0.8Fe0.2O3 perovskite oxide nanofibers. *Electrochimica Acta*, **2020**, 334, 135638	6.7	14
71	Enabling high-performance sodium metal anodes via A sodiophilic structure constructed by hierarchical Sb2MoO6 microspheres. *Nano Energy*, **2020**, 69, 104446	17.1	25
70	Flower-like Mn/Co Glycerolate-Derived MnS/Co9S8/Carbon Heterostructures for High-Performance Lithium-Ion Batteries. *ACS Applied Energy Materials*, **2020**, 3, 10215-10223	6.1	7
69	Hierarchical CoS/N-Doped Carbon@MoS Nanosheets with Enhanced Sodium Storage Performance. *ACS Applied Materials & Interfaces*, **2020**, 12, 54644-54652	9.5	22
68	Micro/nanostructured TiNb2O7-related electrode materials for high-performance electrochemical energy storage: recent advances and future prospects. *Journal of Materials Chemistry A*, **2020**, 8, 18425-18463	13	30
67	Electrospun MnCo2O4 Nanotubes as High-Performance Anode Materials for Lithium-Ion Batteries. *Energy & Fuels*, **2020**, 34, 11574-11580	4.1	16
66	Facile synthesis of hybrid MoS2/graphene nanosheets as high-performance anode for sodium-ion batteries. *Ionics*, **2020**, 26, 711-717	2.7	9
65	Metal-Organic Framework Derived Ge/TiO2@C Nanotablets as High-Performance Anode for Lithium-Ion Batteries. *ChemistrySelect*, **2019**, 4, 10576-10580	1.8	6
64	Hollow Carbon Nanoballs Coupled with Ultrafine TiO2 Nanoparticles as Efficient Sulfur Hosts for Lithium–Sulfur Batteries. *Industrial & Engineering Chemistry Research*, **2019**, 58, 18197-18204	3.9	9

63	Chemical vapor deposition growth of carbon nanotube confined nickel sulfides from porous electrospun carbon nanofibers and their superior lithium storage properties. *Nanoscale Advances*, **2019**, 1, 656-663	5.1	11
62	Integrating TiO/SiO into Electrospun Carbon Nanofibers towards Superior Lithium Storage Performance. *Nanomaterials*, **2019**, 9,	5.4	5
61	Oxidizing solid Co into hollow Co3O4 within electrospun (carbon) nanofibers towards enhanced lithium storage performance. *Journal of Materials Chemistry A*, **2019**, 7, 3024-3030	13	72
60	Microwave-Hydrothermal Synthesis of Hierarchical Sb2WO6 Nanostructures as a New Anode Material for Sodium Storage. *ChemistrySelect*, **2019**, 4, 1078-1083	1.8	8
59	Embedding CoMoO nanoparticles into porous electrospun carbon nanofibers towards superior lithium storage performance. *Journal of Colloid and Interface Science*, **2019**, 553, 320-327	9.3	22
58	Electrospinning Synthesis of Porous NiCoO2 Nanofibers as High-Performance Anode for Lithium-Ion Batteries. *Particle and Particle Systems Characterization*, **2019**, 36, 1900109	3.1	11
57	Casting amorphorized SnO/MoO hybrid into foam-like carbon nanoflakes towards high-performance pseudocapacitive lithium storage. *Journal of Colloid and Interface Science*, **2019**, 547, 299-308	9.3	23
56	Hydrothermal synthesis of hierarchical CoMoO4 microspheres and their lithium storage properties as anode for lithium ion batteries. *Materials Today Communications*, **2019**, 20, 100578	2.5	9
55	Construction of three-dimensional ordered porous carbon bulk networks for high performance lithium-sulfur batteries. *Journal of Colloid and Interface Science*, **2019**, 533, 445-451	9.3	17
54	Hierarchical Sb2MoO6 microspheres for high-performance sodium-ion battery anode. *Energy Storage Materials*, **2019**, 17, 101-110	19.4	22
53	Advanced MoS and graphene heterostructures as high-performance anode for sodium-ion batteries. *Nanotechnology*, **2019**, 30, 104003	3.4	16
52	Au decorated hollow ZnO@ZnS heterostructure for enhanced photocatalytic hydrogen evolution: The insight into the roles of hollow channel and Au nanoparticles. *Applied Catalysis B: Environmental*, **2019**, 244, 748-757	21.8	107
51	Template synthesis of graphitic hollow carbon nanoballs as supports for SnO nanoparticles towards enhanced lithium storage performance. *Nanoscale*, **2018**, 10, 6159-6167	7.7	39
50	Encapsulating Silica/Antimony into Porous Electrospun Carbon Nanofibers with Robust Structure Stability for High-Efficiency Lithium Storage. *ACS Nano*, **2018**, 12, 3406-3416	16.7	104
49	Carbon-Supported Nickel Selenide Hollow Nanowires as Advanced Anode Materials for Sodium-Ion Batteries. *Small*, **2018**, 14, 1702669	11	64
48	Pyrolytic synthesis of MoO nanoplates within foam-like carbon nanoflakes for enhanced lithium ion storage. *Journal of Colloid and Interface Science*, **2018**, 514, 686-693	9.3	19
47	Vacuum Calcination Induced Conversion of Selenium/Carbon Wires to Tubes for High-Performance Sodium–Selenium Batteries. *Advanced Functional Materials*, **2018**, 28, 1706609	15.6	54
46	Alignment of Boron Nitride Nanofibers in Epoxy Composite Films for Thermal Conductivity and Dielectric Breakdown Strength Improvement. *Nanomaterials*, **2018**, 8,	5.4	38

45	Vapor-Infiltration Approach toward Selenium/Reduced Graphene Oxide Composites Enabling Stable and High-Capacity Sodium Storage. *ACS Nano*, **2018**, 12, 7397-7405	16.7	41
44	Formation mechanism of rectangular-ambulatory-plane TiO plates: an insight into the role of hydrofluoric acid. *Chemical Communications*, **2018**, 54, 7191-7194	5.8	10
43	Atomic layer deposition of TiO shells on MoO nanobelts allowing enhanced lithium storage performance. *Chemical Communications*, **2018**, 54, 7782-7785	5.8	28
42	Encapsulating nanoparticulate Sb/MoOx into porous carbon nanofibers via electrospinning for efficient lithium storage. *Chemical Engineering Journal*, **2018**, 336, 701-709	14.7	40
41	Honeycomb-like carbon nanoflakes as a host for SnO2 nanoparticles allowing enhanced lithium storage performance. *Journal of Materials Chemistry A*, **2017**, 5, 6817-6824	13	83
40	Sandwiched epoxy□lumina composites with synergistically enhanced thermal conductivity and breakdown strength. *Journal of Materials Science*, **2017**, 52, 4299-4308	4.3	51
39	Bird□s nest-like nanographene shell encapsulated Si nanoparticles □Their structural and Li anode properties. *Journal of Power Sources*, **2017**, 341, 46-52	8.9	25
38	Synthesis of NiS/carbon composites as anodes for high-performance sodium-ion batteries. *Journal of Solid State Electrochemistry*, **2017**, 21, 3047-3055	2.6	40
37	Binding SnO nanoparticles onto carbon nanotubes with assistance of amorphous MoO towards enhanced lithium storage performance. *Journal of Colloid and Interface Science*, **2017**, 504, 230-237	9.3	18
36	Micro-CaCO 3 conformal template synthesis of hierarchical porous carbon bricks: As a host for SnO 2 nanoparticles with superior lithium storage performance. *Materials Today Energy*, **2017**, 4, 75-80	7	18
35	Epitaxial Growth of Urchin-Like CoSe2 Nanorods from Electrospun Co-Embedded Porous Carbon Nanofibers and Their Superior Lithium Storage Properties. *Particle and Particle Systems Characterization*, **2017**, 34, 1700185	3.1	37
34	Synthesis of Polyvinylpyrrolidone-Stabilized Nonstoichiometric SnO2 Nanosheets with Exposed {101} Facets and Sn(II) Self-Doping as Anode Materials for Li-Ion Batteries. *Electrochimica Acta*, **2016**, 211, 636-643	6.7	14
33	Synthesis of SnO2 versus Sn crystals within N-doped porous carbon nanofibers via electrospinning towards high-performance lithium ion batteries. *Nanoscale*, **2016**, 8, 7595-603	7.7	61
32	Synthesis of Hierarchical Sb2MoO6 Architectures and Their Electrochemical Behaviors as Anode Materials for Li-Ion Batteries. *Inorganic Chemistry*, **2016**, 55, 7012-9	5.1	32
31	Synthesis of SnSb-embedded carbon-silica fibers via electrospinning: Effect of TEOS on structural evolutions and electrochemical properties. *Materials Today Energy*, **2016**, 1-2, 24-32	7	33
30	Room-temperature synthesis of colloidal SnO2 quantum dot solution and ex-situ deposition on carbon nanotubes as anode materials for lithium ion batteries. *Journal of Alloys and Compounds*, **2016**, 680, 109-115	5.7	54
29	Interfacial engineering of Si/multi-walled carbon nanotube nanocomposites towards enhanced lithium storage performance. *Carbon*, **2016**, 107, 600-606	10.4	23
28	Hydrothermal Synthesis of SnO2 Embedded MoO3-x Nanocomposites and Their Synergistic Effects on Lithium Storage. *Electrochimica Acta*, **2016**, 216, 79-87	6.7	44

27	Facile synthesis of ultrafine SnO2 nanoparticles on graphene nanosheets via thermal decomposition of tin-octoate as anode for lithium ion batteries. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	6
26	SnO2 nanoarrays for energy storage and conversion. *CrystEngComm*, **2015**, 17, 5593-5604	3.3	22
25	Growth of Ultrafine SnO 2 Nanoparticles within Multiwall Carbon Nanotube Networks: Non-Solution Synthesis and Excellent Electrochemical Properties as Anodes for Lithium Ion Batteries. *Electrochimica Acta*, **2015**, 178, 778-785	6.7	44
24	Ternary Sn-Ti-O based nanostructures as anodes for lithium ion batteries. *Small*, **2015**, 11, 1364-83	11	45
23	Energy Storage: Ternary SnTiO Based Nanostructures as Anodes for Lithium Ion Batteries (Small 12/2015). *Small*, **2015**, 11, 1480-1480	11	
22	CdS quantum dots modified N-doped titania plates for the photocatalytic mineralization of diclofenac in water under visible light irradiation. *Journal of Molecular Catalysis A*, **2015**, 399, 79-85		24
21	Synthesis and Characterization of Tin Titanate Nanotubes: Precursors for Nanoparticulate Sn-Doped TiO2 Anodes with Synergistically Improved Electrochemical Performance. *ChemElectroChem*, **2014**, 1, 1563-1569	4.3	34
20	Hierarchical growth of SnO2 nanostructured films on FTO substrates: structural defects induced by Sn(II) self-doping and their effects on optical and photoelectrochemical properties. *Nanoscale*, **2014**, 6, 6084-91	7.7	47
19	Hydrothermal synthesis and electrochemical properties of tin titanate nanowires coupled with SnO2 nanoparticles for Li-ion batteries. *CrystEngComm*, **2014**, 16, 7529-7535	3.3	19
18	Fluoride-assisted coaxial growth of SnO2 over-layers on multiwall carbon nanotubes with controlled thickness for lithium ion batteries. *CrystEngComm*, **2014**, 16, 550-555	3.3	39
17	Europium fluoride based luminescent materials: From hydrogels to porous cryogels, and crystalline NaEuF4 and EuF3 micro/nanostructures. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2014**, 179, 48-51	3.1	7
16	Synthesis of carbon nanotube/mesoporous TiO2 coaxial nanocables with enhanced lithium ion battery performance. *Carbon*, **2014**, 75, 345-352	10.4	41
15	Hierarchical SnO2 Nanostructures: Recent Advances in Design, Synthesis, and Applications. *Chemistry of Materials*, **2014**, 26, 123-133	9.6	456
14	Hierarchical assembly of Ti(IV)/Sn(II) co-doped SnO nanosheets along sacrificial titanate nanowires: synthesis, characterization and electrochemical properties. *Nanoscale*, **2013**, 5, 9101-9	7.7	38
13	Fluorinated Eu-Doped SnO2 Nanostructures with Simultaneous Phase and Shape Control and Improved Photoluminescence. *Particle and Particle Systems Characterization*, **2013**, 30, 332-337	3.1	8
12	Engineering of Facets, Band Structure, and Gas-Sensing Properties of Hierarchical Sn2+-Doped SnO2 Nanostructures. *Advanced Functional Materials*, **2013**, 23, n/a-n/a	15.6	45
11	Single-crystalline Li4Ti5O12 nanorods and their application in high rate capability Li4Ti5O12/LiMn2O4 full cells. *Journal of Power Sources*, **2013**, 242, 222-229	8.9	31
10	Hydrothermal synthesis of hierarchical SnO2 microspheres for gas sensing and lithium-ion batteries applications: Fluoride-mediated formation of solid and hollow structures. *Journal of Materials Chemistry*, **2012**, 22, 2140-2148		104

9	CdS/CdSe Double-Sensitized ZnO Nanocable Arrays Synthesized by Chemical Solution Method and Their Photovoltaic Applications. *Journal of Physical Chemistry C*, **2012**, 116, 2656-2661	3.8	64
8	In Situ versus ex Situ Assembly of Aqueous-Based Thioacid Capped CdSe Nanocrystals within Mesoporous TiO2 Films for Quantum Dot Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2012**, 116, 484-489	3.8	48
7	Polyvinylpyrrolidone-assisted ultrasonic synthesis of SnO nanosheets and their use as conformal templates for tin dioxide nanostructures. *Langmuir*, **2012**, 28, 10597-601	4	36
6	Arrays of ZnO/Zn(x)Cd(1-x)Se nanocables: band gap engineering and photovoltaic applications. *Nano Letters*, **2011**, 11, 4138-43	11.5	172
5	Semiconductor Nanocrystal Quantum Dots as Solar Cell Components and Photosensitizers: Material, Charge Transfer, and Separation Aspects of Some Device Topologies. *Journal of Physical Chemistry Letters*, **2011**, 2, 1879-1887	6.4	173
4	Synthesis of anatase TiO(2) nanoshuttles by self-sacrificing of titanate nanowires. *Inorganic Chemistry*, **2009**, 48, 9732-6	5.1	51
3	Robust hollow TiO2 spheres for lithium/sodium ion batteries with excellent cycling stability and rate capability. *Inorganic Chemistry Frontiers*,	6.8	8
2	FeVO4-supported Mn□e oxides for the low-temperature selective catalytic reduction of NOx by NH3. *Catalysis Science and Technology*,	5.5	3
1	A paper-based self-pumping microfluidic fuel cell stack with a novel vertical structure. *International Journal of Energy Research*,	4.5	2