

Hong-Kang Wang

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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	Hierarchical SnO ₂ Nanostructures: Recent Advances in Design, Synthesis, and Applications. <i>Chemistry of Materials</i> , 2014 , 26, 123-133	9.6	456
97	Semiconductor Nanocrystal Quantum Dots as Solar Cell Components and Photosensitizers: Material, Charge Transfer, and Separation Aspects of Some Device Topologies. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1879-1887	6.4	173
96	Arrays of ZnO/Zn(x)Cd(1-x)Se nanocables: band gap engineering and photovoltaic applications. <i>Nano Letters</i> , 2011 , 11, 4138-43	11.5	172
95	Au decorated hollow ZnO@ZnS heterostructure for enhanced photocatalytic hydrogen evolution: The insight into the roles of hollow channel and Au nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 748-757	21.8	107
94	Encapsulating Silica/Antimony into Porous Electrospun Carbon Nanofibers with Robust Structure Stability for High-Efficiency Lithium Storage. <i>ACS Nano</i> , 2018 , 12, 3406-3416	16.7	104
93	Hydrothermal synthesis of hierarchical SnO ₂ microspheres for gas sensing and lithium-ion batteries applications: Fluoride-mediated formation of solid and hollow structures. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2140-2148		104
92	Honeycomb-like carbon nanoflakes as a host for SnO ₂ nanoparticles allowing enhanced lithium storage performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6817-6824	13	83
91	Oxidizing solid Co into hollow Co ₃ O ₄ within electrospun (carbon) nanofibers towards enhanced lithium storage performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3024-3030	13	72
90	Carbon-Supported Nickel Selenide Hollow Nanowires as Advanced Anode Materials for Sodium-Ion Batteries. <i>Small</i> , 2018 , 14, 1702669	11	64
89	CdS/CdSe Double-Sensitized ZnO Nanocable Arrays Synthesized by Chemical Solution Method and Their Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2656-2661	3.8	64
88	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. <i>Advanced Energy Materials</i> , 2020 , 10, 2000931	21.8	63
87	Synthesis of SnO ₂ versus Sn crystals within N-doped porous carbon nanofibers via electrospinning towards high-performance lithium ion batteries. <i>Nanoscale</i> , 2016 , 8, 7595-603	7.7	61
86	Vacuum Calcination Induced Conversion of Selenium/Carbon Wires to Tubes for High-Performance Sodium/Selenium Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1706609	15.6	54
85	Room-temperature synthesis of colloidal SnO ₂ quantum dot solution and ex-situ deposition on carbon nanotubes as anode materials for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 109-115	5.7	54
84	Sandwiched epoxy/alumina composites with synergistically enhanced thermal conductivity and breakdown strength. <i>Journal of Materials Science</i> , 2017 , 52, 4299-4308	4.3	51
83	Synthesis of anatase TiO ₂ nanoshuttles by self-sacrificing of titanate nanowires. <i>Inorganic Chemistry</i> , 2009 , 48, 9732-6	5.1	51
82	In Situ versus ex Situ Assembly of Aqueous-Based Thioacid Capped CdSe Nanocrystals within Mesoporous TiO ₂ Films for Quantum Dot Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 484-489	3.8	48

81	Hierarchical growth of SnO ₂ nanostructured films on FTO substrates: structural defects induced by Sn(II) self-doping and their effects on optical and photoelectrochemical properties. <i>Nanoscale</i> , 2014 , 6, 6084-91	7.7	47
80	Ternary Sn-Ti-O based nanostructures as anodes for lithium ion batteries. <i>Small</i> , 2015 , 11, 1364-83	11	45
79	Engineering of Facets, Band Structure, and Gas-Sensing Properties of Hierarchical Sn ²⁺ -Doped SnO ₂ Nanostructures. <i>Advanced Functional Materials</i> , 2013 , 23, n/a-n/a	15.6	45
78	Growth of Ultrafine SnO ₂ Nanoparticles within Multiwall Carbon Nanotube Networks: Non-Solution Synthesis and Excellent Electrochemical Properties as Anodes for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2015 , 178, 778-785	6.7	44
77	Hydrothermal Synthesis of SnO ₂ Embedded MoO _{3-x} Nanocomposites and Their Synergistic Effects on Lithium Storage. <i>Electrochimica Acta</i> , 2016 , 216, 79-87	6.7	44
76	Constructing three-dimensional ordered porous MoS ₂ /C hierarchies for excellent high-rate long-life pseudocapacitive sodium storage. <i>Chemical Engineering Journal</i> , 2020 , 397, 125385	14.7	43
75	Vapor-Infiltration Approach toward Selenium/Reduced Graphene Oxide Composites Enabling Stable and High-Capacity Sodium Storage. <i>ACS Nano</i> , 2018 , 12, 7397-7405	16.7	41
74	Synthesis of carbon nanotube/mesoporous TiO ₂ coaxial nanocables with enhanced lithium ion battery performance. <i>Carbon</i> , 2014 , 75, 345-352	10.4	41
73	Synthesis of NiS/carbon composites as anodes for high-performance sodium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 3047-3055	2.6	40
72	Encapsulating nanoparticulate Sb/MoO _x into porous carbon nanofibers via electrospinning for efficient lithium storage. <i>Chemical Engineering Journal</i> , 2018 , 336, 701-709	14.7	40
71	Template synthesis of graphitic hollow carbon nanoballs as supports for SnO nanoparticles towards enhanced lithium storage performance. <i>Nanoscale</i> , 2018 , 10, 6159-6167	7.7	39
70	Fluoride-assisted coaxial growth of SnO ₂ over-layers on multiwall carbon nanotubes with controlled thickness for lithium ion batteries. <i>CrystEngComm</i> , 2014 , 16, 550-555	3.3	39
69	Alignment of Boron Nitride Nanofibers in Epoxy Composite Films for Thermal Conductivity and Dielectric Breakdown Strength Improvement. <i>Nanomaterials</i> , 2018 , 8,	5.4	38
68	Hierarchical assembly of Ti(IV)/Sn(II) co-doped SnO ₂ nanosheets along sacrificial titanate nanowires: synthesis, characterization and electrochemical properties. <i>Nanoscale</i> , 2013 , 5, 9101-9	7.7	38
67	Epitaxial Growth of Urchin-Like CoSe ₂ Nanorods from Electrospun Co-Embedded Porous Carbon Nanofibers and Their Superior Lithium Storage Properties. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700185	3.1	37
66	Polyvinylpyrrolidone-assisted ultrasonic synthesis of SnO nanosheets and their use as conformal templates for tin dioxide nanostructures. <i>Langmuir</i> , 2012 , 28, 10597-601	4	36
65	Synthesis and Characterization of Tin Titanate Nanotubes: Precursors for Nanoparticulate Sn-Doped TiO ₂ Anodes with Synergistically Improved Electrochemical Performance. <i>ChemElectroChem</i> , 2014 , 1, 1563-1569	4.3	34
64	Synthesis of SnSb-embedded carbon-silica fibers via electrospinning: Effect of TEOS on structural evolutions and electrochemical properties. <i>Materials Today Energy</i> , 2016 , 1-2, 24-32	7	33

63	Synthesis of Hierarchical Sb ₂ MoO ₆ Architectures and Their Electrochemical Behaviors as Anode Materials for Li-Ion Batteries. <i>Inorganic Chemistry</i> , 2016 , 55, 7012-9	5.1	32
62	Single-crystalline Li ₄ Ti ₅ O ₁₂ nanorods and their application in high rate capability Li ₄ Ti ₅ O ₁₂ /LiMn ₂ O ₄ full cells. <i>Journal of Power Sources</i> , 2013 , 242, 222-229	8.9	31
61	Micro/nanostructured TiNb ₂ O ₇ -related electrode materials for high-performance electrochemical energy storage: recent advances and future prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18425-18463	13.4	30
60	Atomic layer deposition of TiO shells on MoO nanobelts allowing enhanced lithium storage performance. <i>Chemical Communications</i> , 2018 , 54, 7782-7785	5.8	28
59	Dodecylamine coordinated tri-arm CdS nanorod wrapped in intermittent ZnS shell for greatly improved photocatalytic H ₂ evolution. <i>Chemical Engineering Journal</i> , 2022 , 429, 132382	14.7	28
58	Bird's nest-like nanographene shell encapsulated Si nanoparticles Their structural and Li anode properties. <i>Journal of Power Sources</i> , 2017 , 341, 46-52	8.9	25
57	Enabling high-performance sodium metal anodes via A sodiophilic structure constructed by hierarchical Sb ₂ MoO ₆ microspheres. <i>Nano Energy</i> , 2020 , 69, 104446	17.1	25
56	CdS quantum dots modified N-doped titania plates for the photocatalytic mineralization of diclofenac in water under visible light irradiation. <i>Journal of Molecular Catalysis A</i> , 2015 , 399, 79-85		24
55	Casting amorphized SnO/MoO hybrid into foam-like carbon nanoflakes towards high-performance pseudocapacitive lithium storage. <i>Journal of Colloid and Interface Science</i> , 2019 , 547, 299-308	9.3	23
54	Bubble-like Fe-encapsulated N,S-codoped carbon nanofibers as efficient bifunctional oxygen electrocatalysts for robust Zn-air batteries. <i>Nano Research</i> , 2020 , 13, 2175-2182	10	23
53	Interfacial engineering of Si/multi-walled carbon nanotube nanocomposites towards enhanced lithium storage performance. <i>Carbon</i> , 2016 , 107, 600-606	10.4	23
52	Embedding CoMoO nanoparticles into porous electrospun carbon nanofibers towards superior lithium storage performance. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 320-327	9.3	22
51	SnO ₂ nanoarrays for energy storage and conversion. <i>CrystEngComm</i> , 2015 , 17, 5593-5604	3.3	22
50	Hierarchical CoS/N-Doped Carbon@MoS Nanosheets with Enhanced Sodium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54644-54652	9.5	22
49	Hierarchical Sb ₂ MoO ₆ microspheres for high-performance sodium-ion battery anode. <i>Energy Storage Materials</i> , 2019 , 17, 101-110	19.4	22
48	Porous N-doped carbon nanoflakes supported hybridized SnO/CoO nanocomposites as high-performance anode for lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 546-554	9.3	20
47	Pyrolytic synthesis of MoO nanoplates within foam-like carbon nanoflakes for enhanced lithium ion storage. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 686-693	9.3	19
46	Hydrothermal synthesis and electrochemical properties of tin titanate nanowires coupled with SnO ₂ nanoparticles for Li-ion batteries. <i>CrystEngComm</i> , 2014 , 16, 7529-7535	3.3	19

45	Binding SnO nanoparticles onto carbon nanotubes with assistance of amorphous MoO towards enhanced lithium storage performance. <i>Journal of Colloid and Interface Science</i> , 2017 , 504, 230-237	9.3	18
44	Micro-CaCO ₃ conformal template synthesis of hierarchical porous carbon bricks: As a host for SnO ₂ nanoparticles with superior lithium storage performance. <i>Materials Today Energy</i> , 2017 , 4, 75-80	7	18
43	Generating Short-Chain Sulfur Suitable for Efficient Sodium Sulfur Batteries via Atomic Copper Sites on a N,O-Codoped Carbon Composite. <i>Advanced Energy Materials</i> , 2021 , 11, 2100989	21.8	18
42	Synergizing Phase and Cavity in CoMoO ₄ S-Yolk-Shell Anodes to Co-Enhance Capacity and Rate Capability in Sodium Storage. <i>Small</i> , 2020 , 16, e2002487	11	17
41	Embedding amorphous lithium vanadate into carbon nanofibers by electrospinning as a high-performance anode material for lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 21-29	9.3	17
40	MOF-Derived CoS/N-Doped Carbon Composite to Induce Short-Chain Sulfur Molecule Generation for Enhanced Sodium-Sulfur Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18010-18020	9.5	17
39	Construction of three-dimensional ordered porous carbon bulk networks for high performance lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2019 , 533, 445-451	9.3	17
38	Electrospun MnCo ₂ O ₄ Nanotubes as High-Performance Anode Materials for Lithium-Ion Batteries. <i>Energy & Fuels</i> , 2020 , 34, 11574-11580	4.1	16
37	Advanced MoS ₂ and graphene heterostructures as high-performance anode for sodium-ion batteries. <i>Nanotechnology</i> , 2019 , 30, 104003	3.4	16
36	Synthesis of Polyvinylpyrrolidone-Stabilized Nonstoichiometric SnO ₂ Nanosheets with Exposed {101} Facets and Sn(II) Self-Doping as Anode Materials for Li-Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 211, 636-643	6.7	14
35	Conductive metal-organic frameworks endow high-efficient oxygen evolution of La _{0.6} Sr _{0.4} Co _{0.8} Fe _{0.2} O ₃ perovskite oxide nanofibers. <i>Electrochimica Acta</i> , 2020 , 334, 135638	6.7	14
34	Space-Confined Synthesis of Ultrasmall SnO ₂ Nanodots within Ordered Mesoporous Carbon CMK-3 for High-Performance Lithium Ion Batteries. <i>Energy & Fuels</i> , 2020 , 34, 7709-7715	4.1	13
33	Nano Polymorphism-Enabled Redox Electrodes for Rechargeable Batteries. <i>Advanced Materials</i> , 2021 , 33, e2004920	24	13
32	Chemical vapor deposition growth of carbon nanotube confined nickel sulfides from porous electrospun carbon nanofibers and their superior lithium storage properties. <i>Nanoscale Advances</i> , 2019 , 1, 656-663	5.1	11
31	Electrospinning Synthesis of Porous NiCoO ₂ Nanofibers as High-Performance Anode for Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900109	3.1	11
30	Integrating amorphous vanadium oxide into carbon nanofibers via electrospinning as high-performance anodes for alkaline ion (Li ⁺ /Na ⁺ /K ⁺) batteries. <i>Electrochimica Acta</i> , 2021 , 369, 137711	6.7	11
29	Formation mechanism of rectangular-ambulatory-plane TiO ₂ plates: an insight into the role of hydrofluoric acid. <i>Chemical Communications</i> , 2018 , 54, 7191-7194	5.8	10
28	Hollow Carbon Nanoballs Coupled with Ultrafine TiO ₂ Nanoparticles as Efficient Sulfur Hosts for Lithium Sulfur Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 18197-18204	3.9	9

27	Atomic layer deposition of TiO ₂ shells on CoSe ₂ nanorods towards enhanced lithium storage performance. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154537	5.7	9
26	Hydrothermal synthesis of hierarchical CoMoO ₄ microspheres and their lithium storage properties as anode for lithium ion batteries. <i>Materials Today Communications</i> , 2019 , 20, 100578	2.5	9
25	Activating inverse spinel NiCo ₂ O ₄ embedded in N-doped carbon nanofibers via Fe substitution for bifunctional oxygen electrocatalysis. <i>Materials Today Physics</i> , 2021 , 17, 100353	8	9
24	Facile synthesis of hybrid MoS ₂ /graphene nanosheets as high-performance anode for sodium-ion batteries. <i>Ionics</i> , 2020 , 26, 711-717	2.7	9
23	Microwave-Hydrothermal Synthesis of Hierarchical Sb ₂ WO ₆ Nanostructures as a New Anode Material for Sodium Storage. <i>ChemistrySelect</i> , 2019 , 4, 1078-1083	1.8	8
22	Fluorinated Eu-Doped SnO ₂ Nanostructures with Simultaneous Phase and Shape Control and Improved Photoluminescence. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 332-337	3.1	8
21	Robust hollow TiO ₂ spheres for lithium/sodium ion batteries with excellent cycling stability and rate capability. <i>Inorganic Chemistry Frontiers</i> ,	6.8	8
20	Europium fluoride based luminescent materials: From hydrogels to porous cryogels, and crystalline NaEuF ₄ and EuF ₃ micro/nanostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014 , 179, 48-51	3.1	7
19	Flower-like Mn/Co Glycerolate-Derived MnS/Co ₉ S ₈ /Carbon Heterostructures for High-Performance Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10215-10223	6.1	7
18	Metal-Organic Framework Derived Ge/TiO ₂ @C Nanotablets as High-Performance Anode for Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2019 , 4, 10576-10580	1.8	6
17	Electrospinning synthesis of porous carbon nanofiber supported CoSe ₂ nanoparticles towards enhanced sodium ion storage. <i>Materials Chemistry and Physics</i> , 2021 , 262, 124314	4.4	6
16	Facile synthesis of ultrafine SnO ₂ nanoparticles on graphene nanosheets via thermal decomposition of tin-octoate as anode for lithium ion batteries. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	6
15	Plate-like carbon-supported Fe ₃ C nanoparticles with superior electrochemical performance. <i>Rare Metals</i> , 2021 , 40, 1402-1411	5.5	6
14	Hollow TiNb ₂ O ₇ Nanospheres with a Carbon Coating as High-Efficiency Anode Materials for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 61-70	8.3	6
13	Integrating TiO ₂ /SiO ₂ into Electrospun Carbon Nanofibers towards Superior Lithium Storage Performance. <i>Nanomaterials</i> , 2019 , 9,	5.4	5
12	Coaxially Integrating TiO ₂ /MoO ₃ into Carbon Nanofibers via Electrospinning towards Enhanced Lithium Ion Storage Performance. <i>ChemistrySelect</i> , 2020 , 5, 3225-3233	1.8	4
11	Metal-organic framework derived vanadium-doped TiO@carbon nanotablets for high-performance sodium storage. <i>Journal of Colloid and Interface Science</i> , 2021 , 604, 188-197	9.3	4
10	Selenizing CoMoO nanoparticles within electrospun carbon nanofibers towards enhanced sodium storage performance. <i>Journal of Colloid and Interface Science</i> , 2021 , 586, 663-672	9.3	4

9	Porous graphene-like MoS ₂ /carbon hierarchies for high-performance pseudocapacitive sodium storage. <i>Sustainable Energy and Fuels</i> , 2022 , 6, 822-833	5.8	3
8	FeVO ₄ -supported Mn ^{II} e oxides for the low-temperature selective catalytic reduction of NO _x by NH ₃ . <i>Catalysis Science and Technology</i> ,	5.5	3
7	Phase structure engineering of MnCoO within electrospun carbon nanofibers towards high-performance lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 171-180	9.3	3
6	A paper-based self-pumping microfluidic fuel cell stack with a novel vertical structure. <i>International Journal of Energy Research</i> ,	4.5	2
5	Polyvinylpyrrolidone regulated synthesis of mesoporous titanium niobium oxide as high-performance anode for lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 1782-1791	9.3	1
4	Encapsulation of selenium in MOF-derived N,O-codoped porous flower-like carbon host for Na-Se batteries. <i>Chemical Engineering Journal</i> , 2022 , 430, 132737	14.7	1
3	Hierarchical Carbon Nanocages Embedding High-loading Sulfur for Catalyzing Oxygen Reduction Reactions. <i>ChemCatChem</i> , 2021 , 13, 2045-2052	5.2	1
2	Synthesis of Spherical Carbon-Coated CoP Nanoparticles for High-Performance Lithium-Ion Batteries. <i>Energy Technology</i> , 2021 , 9, 2100605	3.5	1
1	Energy Storage: Ternary Sn ^{II} iD Based Nanostructures as Anodes for Lithium Ion Batteries (Small 12/2015). <i>Small</i> , 2015 , 11, 1480-1480	11	