

Ming-Sheng Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

2,401
citations

24
h-index

48
g-index

60
ext. papers

3,201
ext. citations

14.9
avg, IF

5.35
L-index

#	Paper	IF	Citations
53	Advanced red phosphorus/carbon composites with practical application potential for sodium ion batteries. <i>Energy Storage Materials</i> , 2022 , 46, 20-28	19.4	2
52	Boosting high voltage cycling of LiCoO ₂ cathode via triisopropanolamine cyclic borate electrolyte additive. <i>Journal of Power Sources</i> , 2022 , 532, 231372	8.9	0
51	Dictating the interfacial stability of nickel-rich LiNiCoMnO via a diazacyclo electrolyte additive - 2-Fluoropyrazine.. <i>Journal of Colloid and Interface Science</i> , 2022 , 618, 431-441	9.3	1
50	Constructing Robust Cross-Linked Binder Networks for Silicon Anodes with Improved Lithium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53818-53828	9.5	7
49	Synthesis of paracrystalline diamond. <i>Nature</i> , 2021 , 599, 605-610	50.4	9
48	Mechanistic Probing of Encapsulation and Confined Growth of Lithium Crystals in Carbonaceous Nanotubes. <i>Advanced Materials</i> , 2021 , e2105228	24	2
47	Linking the Defects to the Formation and Growth of Li Dendrite in All-Solid-State Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2102148	21.8	16
46	Lithium Storage in Bowl-like Carbon: The Effect of Surface Curvature and Space Geometry on Li Metal Deposition. <i>ACS Energy Letters</i> , 2021 , 6, 2145-2152	20.1	12
45	Fast and Durable Potassium Storage Enabled by Constructing Stress-Dispersed CoSe Nanocrystallites Anchored on Graphene Sheets. <i>ACS Nano</i> , 2021 , 15, 10107-10118	16.7	19
44	Understanding all solid-state lithium batteries through in situ transmission electron microscopy. <i>Materials Today</i> , 2021 , 42, 137-161	21.8	34
43	Unveiling Intrinsic Potassium Storage Behaviors of Hierarchical Nano Bi@N-Doped Carbon Nanocages Framework via In Situ Characterizations. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7180-7187	16.4	40
42	Unveiling Intrinsic Potassium Storage Behaviors of Hierarchical Nano Bi@N-Doped Carbon Nanocages Framework via In Situ Characterizations. <i>Angewandte Chemie</i> , 2021 , 133, 7256-7263	3.6	9
41	Engineering Na-layer spacings to stabilize Mn-based layered cathodes for sodium-ion batteries. <i>Nature Communications</i> , 2021 , 12, 4903	17.4	23
40	A "Biconcave-Alleviated" Strategy to Construct -Derived Carbon/MoS ₂ for Ultrastable Sodium Ion Storage. <i>ACS Nano</i> , 2021 ,	16.7	14
39	Interfacial Enhancement of Silicon-Based Anode by a Lactam-Type Electrolyte Additive. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10323-10332	6.1	4
38	Rational design of three-dimensional branched NiCo-P@CoNiMo-P core/shell nanowire heterostructures for high-performance hybrid supercapacitor. <i>Journal of Energy Chemistry</i> , 2021 , 61, 489-496	12	13
37	Nano-size porous carbon spheres as a high-capacity anode with high initial coulombic efficiency for potassium-ion batteries. <i>Nanoscale Horizons</i> , 2020 , 5, 895-903	10.8	22

36	Lithium Batteries: Stable Nano-Encapsulation of Lithium Through Seed-Free Selective Deposition for High-Performance Li Battery Anodes (Adv. Energy Mater. 7/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070031	21.8	1
35	Diameter, strength and resistance tuning of double-walled carbon nanotubes in a transmission electron microscope. <i>Carbon</i> , 2020 , 160, 98-106	10.4	3
34	Stable Nano-Encapsulation of Lithium Through Seed-Free Selective Deposition for High-Performance Li Battery Anodes. <i>Advanced Energy Materials</i> , 2020 , 10, 1902956	21.8	38
33	Shaping and Edge Engineering of Few-Layered Freestanding Graphene Sheets in a Transmission Electron Microscope. <i>Nano Letters</i> , 2020 , 20, 2279-2287	11.5	3
32	Conductive polyaniline doped with phytic acid as a binder and conductive additive for a commercial silicon anode with enhanced lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16323-16331 ^{13, 16331} ¹⁸		
31	Achieving Fast and Durable Lithium Storage through Amorphous FeP Nanoparticles Encapsulated in Ultrathin 3D P-Doped Porous Carbon Nanosheets. <i>ACS Nano</i> , 2020 , 14, 9545-9561	16.7	149
30	The stability of P2-layered sodium transition metal oxides in ambient atmospheres. <i>Nature Communications</i> , 2020 , 11, 3544	17.4	88
29	Hierarchical Design of MnP Nanoparticles Embedded in N,P-Codoped Porous Carbon Nanosheets Enables Highly Durable Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36247-36258	9.5	22
28	In Situ Atomic-Scale Observation of Reversible Potassium Storage in Sb ₂ S ₃ @Carbon Nanowire Anodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2005417	15.6	41
27	High performance columnar-like Fe ₂ O ₃ @carbon composite anode via yolk@shell structural design. <i>Journal of Energy Chemistry</i> , 2020 , 41, 126-134	12	141
26	Seamless interconnections of sp ² -bonded carbon nanostructures via the crystallization of a bridging amorphous carbon joint. <i>Materials Horizons</i> , 2019 , 6, 72-80	14.4	6
25	A generalized strategy for the synthesis of two-dimensional metal oxide nanosheets based on a thermoregulated phase transition. <i>Nanoscale</i> , 2019 , 11, 3200-3207	7.7	16
24	Top-down fabrication of small carbon nanotubes. <i>Nanoscale Horizons</i> , 2019 , 4, 1310-1317	10.8	4
23	Design and understanding of dendritic mixed-metal hydroxide nanosheets@N-doped carbon nanotube array electrode for high-performance asymmetric supercapacitors. <i>Energy Storage Materials</i> , 2019 , 16, 632-645	19.4	170
22	Robust Lithium Metal Anodes Realized by Lithiophilic 3D Porous Current Collectors for Constructing High-Energy Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2019 , 13, 8337-8346	16.7	94
21	Encapsulating lithium and sodium inside amorphous carbon nanotubes through gold-seeded growth. <i>Nano Energy</i> , 2019 , 66, 104178	17.1	24
20	Anion and cation substitution in transition-metal oxides nanosheets for high-performance hybrid supercapacitors. <i>Nano Energy</i> , 2019 , 57, 22-33	17.1	193
19	Robust erythrocyte-like Fe ₂ O ₃ @carbon with yolk-shell structures as high-performance anode for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2018 , 347, 563-573	14.7	131

18	Rational Design of Nickel Hydroxide-Based Nanocrystals on Graphene for Ultrafast Energy Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1702247	21.8	172
17	Structural and electrical properties tailoring of carbon nanotubes via a reversible defect handling technique. <i>Carbon</i> , 2018 , 133, 186-192	10.4	11
16	Mechanistic Origin of the High Performance of Yolk@Shell BiS@N-Doped Carbon Nanowire Electrodes. <i>ACS Nano</i> , 2018 , 12, 12597-12611	16.7	166
15	Tin Nanoparticles Encapsulated Carbon Nanoboxes as High-Performance Anode for Lithium-Ion Batteries. <i>Frontiers in Chemistry</i> , 2018 , 6, 533	5	11
14	Fabrication and understanding of CuSi-Si@carbon@graphene nanocomposites as high-performance anodes for lithium-ion batteries. <i>Nanoscale</i> , 2018 , 10, 22203-22214	7.7	72
13	Graphene Ingestion and Regrowth on "Carbon-Starved" Metal Electrodes. <i>ACS Nano</i> , 2017 , 11, 10575-10582	5.2	2
12	In-situ electron microscopy observation of electrochemical sodium plating and stripping dynamics on carbon nanofiber current collectors. <i>Nano Energy</i> , 2017 , 42, 122-128	17.1	41
11	Reversible Tuning of Individual Carbon Nanotube Mechanical Properties via Defect Engineering. <i>Nano Letters</i> , 2016 , 16, 5221-7	11.5	21
10	Carbon "onions" as point electron sources. <i>ACS Nano</i> , 2010 , 4, 4396-402	16.7	37
9	Interface dynamic behavior between a carbon nanotube and metal electrode. <i>Advanced Materials</i> , 2010 , 22, 93-8	24	38
8	Tensile tests on individual single-walled carbon nanotubes: linking nanotube strength with its defects. <i>Advanced Materials</i> , 2010 , 22, 4071-5	24	61
7	Superstrong low-resistant carbon nanotube-carbide-metal nanocontacts. <i>Advanced Materials</i> , 2010 , 22, 5350-5	24	29
6	Rapid and direct conversion of graphite crystals into high-yielding, good-quality graphene by supercritical fluid exfoliation. <i>Chemistry - A European Journal</i> , 2010 , 16, 6488-94	4.8	158
5	Electron-beam irradiation induced conductivity in ZnS nanowires as revealed by in situ transmission electron microscope. <i>Journal of Applied Physics</i> , 2009 , 106, 034302	2.5	8
4	Multibranch Junctions of Carbon Nanotubes via Cobalt Particles. <i>Advanced Materials</i> , 2009 , 21, 4477-4482	4.8	60
3	Cobalt nanoparticle-assisted engineering of multiwall carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 2632-8	16.7	26
2	Heterojunctions between metals and carbon nanotubes as ultimate nanocontacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4591-5	11.5	100
1	Electrolyte Additive cis-1,2,3,6-Tetrahydrophthalic Anhydride Enhanced the Cycle Life of Nickel-Rich LiNi _{0.9} Co _{0.05} Mn _{0.05} O ₂ . <i>ACS Applied Energy Materials</i> ,	6.1	5

