Huanwen Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2337365/publications.pdf

Version: 2024-02-01

105 papers	8,870 citations	34105 52 h-index	40979 93 g-index
107 all docs	107 docs citations	107 times ranked	10871 citing authors

#	Article	IF	Citations
1	Three-dimensional ordered macroporous g-C3N4-Cu2O-TiO2 heterojunction for enhanced hydrogen production. Science China Materials, 2022, 65, 139-146.	6.3	17
2	Rational design of all-solid-state TiO2-x/Cu/ZnO Z-scheme heterojunction via ALD-assistance for enhanced photocatalytic activity. Journal of Colloid and Interface Science, 2022, 607, 760-768.	9.4	24
3	Tissue-derived carbon microbelt paper: a high-initial-coulombic-efficiency and low-discharge-platform K⁺-storage anode for 4.5 V hybrid capacitors. Energy and Environmental Science, 2022, 15, 158-168.	30.8	112
4	Natural ore molybdenite as a high-capacity and cheap anode material for advanced lithium-ion capacitors. Nanotechnology, 2022, 33, 255401.	2.6	1
5	A Mechanically Flexible Necklaceâ€Like Architecture for Achieving Fast Charging and High Capacity in Advanced Lithiumâ€Ion Capacitors. Small, 2022, 18, .	10.0	26
6	In-situ construction of Ruddlesden-Popper/perovskite heterointerface induces efficient bifunctional oxygen electrocatalyst for rechargeable zinc-air batteries. Electrochimica Acta, 2022, 424, 140673.	5.2	10
7	Metal organic framework derived perovskite/spinel heterojunction as efficient bifunctional oxygen electrocatalyst for rechargeable and flexible Zn-air batteries. Journal of Colloid and Interface Science, 2022, 625, 502-511.	9.4	21
8	Rational construction of 2D/2D Ti3C2Tx/NiCo MOF heterostructure for highly efficient Li+ storage. Electrochimica Acta, 2022, 427, 140851.	5.2	18
9	Abundant heterointerfaces in MOF-derived hollow CoS2â€“MoS2 nanosheet array electrocatalysts for overall water splitting. Journal of Energy Chemistry, 2021, 57, 99-108.	12.9	84
10	FeS2â€“CoS2 incorporated into nitrogen-doped carbon nanofibers to boost oxygen electrocatalysis for durable rechargeable Zn-air batteries. Journal of Power Sources, 2021, 482, 228955.	7.8	67
11	Aligned Arrays of Na₂Ti₃O₇ Nanobelts and Nanowires on Carbon Nanofiber as Highâ€Rate and Longâ€Cycling Anodes for Sodiumâ€Ion Hybrid Capacitors. Small Structures, 2021, 2, 2000073.	12.0	32
12	Rationally constructing a hierarchical two-dimensional NiCo metalâ€“organic framework/graphene hybrid for highly efficient Li⁺ ion storage. Materials Chemistry Frontiers, 2021, 5, 4589-4595.	5.9	16
13	Selective-etching of MOF toward hierarchical porous Mo-doped CoP/N-doped carbon nanosheet arrays for efficient hydrogen evolution at all pH values. Chemical Engineering Journal, 2021, 405, 126981.	12.7	55
14	Ti3O5 nanofilm on carbon nanotubes by pulse laser deposition: Enhanced electrochemical performance. Applied Surface Science, 2021, 548, 149269.	6.1	13
15	Sulfur and nitrogen dual-doped carbon nanofiber with enlarged interlayer distance as a superior anode material for sodium-ion capacitors. Materials Research Bulletin, 2021, 138, 111211.	5.2	15
16	Recent advances on pre-sodiation in sodium-ion capacitors: A mini review. Electrochemistry Communications, 2021, 129, 107090.	4.7	15
17	Nitrogen-doped carbon nanotube-buffered FeSe2 anodes for fast-charging and high-capacity lithium storage. Electrochimica Acta, 2021, 389, 138686.	5.2	15
18	In-situ photodeposition of CoSx on Pa0.5Ba0.5Mn0.25Fe0.75O3-Î´ perovskite to boost bifunctional oxygen electrocatalysis for rechargeable Zn-air batteries. Electrochimica Acta, 2021, 391, 138951.	5.2	10

#	Article	IF	Citations
19	Hierarchical iron-phosphide@NiCo2O4 nanoneedle arrays for high performance water splitting. Applied Surface Science, 2021, 569, 151016.	6.1	8
20	Sulfur covalently linked TiO2/C nanofiber as a high-capacity, ultrastable, and self-supported anode for sodium-ion capacitors. Electrochimica Acta, 2021, 399, 139377.	5.2	6
21	Hierarchical MXene/transition metal chalcogenide heterostructures for electrochemical energy storage and conversion. Nanoscale, 2021, 13, 19740-19770.	5.6	41
22	Enhanced visible-light photocatalytic H2 production of hierarchical g-C3N4 hexagon by one-step self-assembly strategy. Applied Surface Science, 2020, 499, 143942.	6.1	16
23	Integration of flexibility, cyclability and high-capacity into one electrode for sodium-ion hybrid capacitors with low self-discharge rate. Energy Storage Materials, 2020, 25, 114-123.	18.0	99
24	Biomass-derived, 3D interconnected N-doped carbon foam as a host matrix for Li/Na/K-selenium batteries. Electrochimica Acta, 2020, 356, 136832.	5.2	43
25	In Situ Hardâ€Template Synthesis of Hollow Bowlâ€Like Carbon: A Potential Versatile Platform for Sodium and Zinc Ion Capacitors. Advanced Energy Materials, 2020, 10, 2002741.	19.5	143
26	Recent progress on hollow array architectures and their applications in electrochemical energy storage. Nanoscale Horizons, 2020, 5, 1188-1199.	8.0	48
27	Al₂O₃â€Assisted Confinement Synthesis of Oxide/Carbon Hollow Composite Nanofibers and Application in Metalâ€Ion Capacitors. Small, 2020, 16, e2001950.	10.0	65
28	Hollow nanosheet array of phosphorus-anion-decorated cobalt disulfide as an efficient electrocatalyst for overall water splitting. Chemical Engineering Journal, 2020, 390, 124556.	12.7	84
29	Coupling of bowl-like VS2 nanosheet arrays and carbon nanofiber enables ultrafast Na+-Storage and robust flexibility for sodium-ion hybrid capacitors. Energy Storage Materials, 2020, 28, 91-100.	18.0	82
30	Coupling amorphous cobalt hydroxide nanoflakes on Sr₂Fe_{1.5}Mo_{0.5}O_{5+Î´} perovskite nanofibers to induce bifunctionality for water splitting. Nanoscale, 2020, 12, 9048-9057.	5.6	33
31	Encapsulation of Na3(VO)2(PO4)2F into carbon nanofiber as an superior cathode material for flexible sodium-ion capacitors with high-energy-density and low-self-discharge. Journal of Power Sources, 2020, 466, 228249.	7.8	28
32	Largeâ€Area, Uniform, Aligned Arrays of Na₃(VO)₂(PO₄)₂F on Carbon Nanofiber for Quasiâ€Solidâ€State Sodiumâ€Ion Hybrid Capacitors. Small, 2019, 15, e1902466.	10.0	71
33	An integrated bifunctional catalyst of metal-sulfide/perovskite oxide for lithium-oxygen batteries. Journal of Power Sources, 2019, 437, 226908.	7.8	23
34	A high-energy sodium-ion capacitor enabled by a nitrogen/sulfur co-doped hollow carbon nanofiber anode and an activated carbon cathode. Nanoscale Advances, 2019, 1, 746-756.	4.6	24
35	Mesoporeâ€Induced Ultrafast Na⁺â€Storage in Tâ€Nb₂O₅/Carbon Nanofiber Films toward Flexible Highâ€Power Naâ€Ion Capacitors. Small, 2019, 15, e1804539.	10.0	109
36	Plasma treated TiO2/C nanofibers as high performance anode materials for sodium-ion batteries. RSC Advances, 2019, 9, 18451-18458.	3.6	4

#	Article	IF	Citations
37	Ultrafast Na+-storage in TiO2-coated MoS2@N-doped carbon for high-energy sodium-ion hybrid capacitors. Energy Storage Materials, 2019, 23, 95-104.	18.0	59
38	Encapsulation of Fe₃O₄ between Copper Nanorod and Thin TiO₂ Film by ALD for Lithium-Ion Capacitors. ACS Applied Materials & Interfaces, 2019, 11, 19115-19122.	8.0	29
39	Enhanced Cycling Stability of Cation Disordered Rock-Salt Li1.2Ti0.4Mn0.4O2 Material by Surface Modification With Al2O3. Frontiers in Chemistry, 2019, 7, 107.	3.6	30
40	Plasma engraved Bi0.1(Ba0.5Sr0.5)0.9Co0.8Fe0.2O3âˆ'Î´ perovskite for highly active and durable oxygen evolution. Scientific Reports, 2019, 9, 4210.	3.3	20
41	Template-free synthesis of nanocage-like g-C₃N₄ with high surface area and nitrogen defects for enhanced photocatalytic H₂ activity. Journal of Materials Chemistry A, 2019, 7, 5324-5332.	10.3	130
42	A high-power lithium-ion hybrid capacitor based on a hollow N-doped carbon nanobox anode and its porous analogue cathode. Nanoscale, 2019, 11, 20715-20724.	5.6	37
43	In-situ construction of coral-like porous P-doped g-C3N4 tubes with hybrid 1D/2D architecture and high efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 241, 159-166.	20.2	231
44	Facile synthesis of rod-like g-C3N4 by decorating Mo2C co-catalyst for enhanced visible-light photocatalytic activity. Applied Surface Science, 2019, 470, 565-572.	6.1	59
45	Conformal Conducting Polymer Shells on V₂O₅ Nanosheet Arrays as a Highâ€Rate and Stable Zincâ€Ion Battery Cathode. Advanced Materials Interfaces, 2019, 6, 1801506.	3.7	170
46	Uniform MoS2 nanolayer with sulfur vacancy on carbon nanotube networks as binder-free electrodes for asymmetrical supercapacitor. Applied Surface Science, 2019, 475, 793-802.	6.1	69
47	Influence of Conductive additives on the stability of red phosphorus-carbon anodes for sodium-ion batteries. Scientific Reports, 2019, 9, 946.	3.3	12
48	Rational Design and Fabrication of Nobleâ€metalâ€free Ni_xP Cocatalyst Embedded 3D Nâ€TiO₂/gâ€C₃N₄ Heterojunctions with Enhanced Photocatalytic Hydrogen Evolution. ChemCatChem, 2018, 10, 3069-3077.	3.7	81
49	Flexible Quasiâ€Solidâ€State Sodiumâ€Ion Capacitors Developed Using 2D Metalâ€“Organicâ€Framework Array as Reactor. Advanced Energy Materials, 2018, 8, 1702769.	19.5	195
50	3D self-supported Fe O P film on nickel foam as a highly active bifunctional electrocatalyst for urea-assisted overall water splitting. Materials Research Bulletin, 2018, 100, 72-75.	5.2	29
51	Improved sodium storage performances of plasma treated self-supported carbon fibers. Solid State Ionics, 2018, 327, 52-58.	2.7	9
52	MOFs-derived hybrid nanosheet arrays of nitrogen-rich CoS2 and nitrogen-doped carbon for efficient hydrogen evolution in both alkaline and acidic media. International Journal of Hydrogen Energy, 2018, 43, 23319-23326.	7.1	14
53	Boosting Overall Water Splitting via FeOOH Nanoflake-Decorated PrBa_{0.5}Sr_{0.5}Co₂O_{5+Î´} Nanorods. ACS Applied Materials & Interfaces, 2018, 10, 38032-38041.	8.0	66
54	Atomic layered deposition iron oxide on perovskite LaNiO3 as an efficient and robust bi-functional catalyst for lithium oxygen batteries. Electrochimica Acta, 2018, 281, 338-347.	5.2	57

#	Article	IF	Citations
55	2D metalâ€“organic-framework array-derived hierarchical network architecture of cobalt oxide flakes with tunable oxygen vacancies towards efficient oxygen evolution reaction. Journal of Catalysis, 2018, 364, 48-56.	6.2	56
56	Mo₂C-induced solid-phase synthesis of ultrathin MoS₂ nanosheet arrays on bagasse-derived porous carbon frameworks for high-energy hybrid sodium-ion capacitors. Journal of Materials Chemistry A, 2018, 6, 14742-14751.	10.3	69
57	Metal-organic-framework template-derived hierarchical porous CoP arrays for energy-saving overall water splitting. Electrochimica Acta, 2018, 284, 504-512.	5.2	57
58	High-energy flexible quasi-solid-state lithium-ion capacitors enabled by a freestanding rGO-encapsulated Fe₃O₄ nanocube anode and a holey rGO film cathode. Nanoscale, 2018, 10, 17814-17823.	5.6	49
59	Hierarchical molybdenum carbide/N-doped carbon as efficient electrocatalyst for hydrogen evolution reaction in alkaline solution. International Journal of Hydrogen Energy, 2018, 43, 17244-17251.	7.1	19
60	Co₉S₈/MoS₂ Yolkâ€“Shell Spheres for Advanced Li/Na Storage. Small, 2017, 13, 1603490.	10.0	162
61	Ultrathin MnO2 nanoflakes deposited on carbon nanotube networks for symmetrical supercapacitors with enhanced performance. Journal of Power Sources, 2017, 341, 27-35.	7.8	124
62	Ultrathin MoSe₂@N-doped carbon composite nanospheres for stable Na-ion storage. Nanotechnology, 2017, 28, 42LT01.	2.6	55
63	Nonaqueous Hybrid Lithiumâ€Ion and Sodiumâ€Ion Capacitors. Advanced Materials, 2017, 29, 1702093.	21.0	699
64	Hydrogenated vanadium oxides as an advanced anode material in lithium ion batteries. Nano Research, 2017, 10, 4266-4273.	10.4	7
65	Pulsed laser deposition of amorphous molybdenum disulfide films for efficient hydrogen evolution reaction. Electrochimica Acta, 2017, 258, 876-882.	5.2	30
66	An Airâ€Stable Densely Packed Phosphoreneâ€“Graphene Composite Toward Advanced Lithium Storage Properties. Advanced Energy Materials, 2016, 6, 1600453.	19.5	167
67	Lithium Storage: An Air-Stable Densely Packed Phosphorene-Graphene Composite Toward Advanced Lithium Storage Properties (Adv. Energy Mater. 12/2016). Advanced Energy Materials, 2016, 6, .	19.5	2
68	A Highâ€Energy Lithiumâ€Ion Capacitor by Integration of a 3D Interconnected Titanium Carbide Nanoparticle Chain Anode with a Pyridineâ€Derived Porous Nitrogenâ€Doped Carbon Cathode. Advanced Functional Materials, 2016, 26, 3082-3093.	14.9	330
69	In situ growth of binder-free CNTs@Niâ€“Coâ€“S nanosheets core/shell hybrids on Ni mesh for high energy density asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 8888-8897.	10.3	118
70	Controllable Preparation of Square Nickel Chalcogenide (NiS and NiSe₂) Nanoplates for Superior Li/Na Ion Storage Properties. ACS Applied Materials & Interfaces, 2016, 8, 25261-25267.	8.0	185
71	Atomic Layer Deposition of Amorphous TiO₂ on Carbon Nanotube Networks and Their Superior Li and Na Ion Storage Properties. Advanced Materials Interfaces, 2016, 3, 1600375.	3.7	75
72	3D Hierarchical Porous Mo₂C for Efficient Hydrogen Evolution. Small, 2016, 12, 2859-2865.	10.0	101

#	Article	IF	Citations
73	Conversion of uniform graphene oxide/polypyrrole composites into functionalized 3D carbon nanosheet frameworks with superior supercapacitive and sodium-ion storage properties. Journal of Power Sources, 2016, 307, 17-24.	7.8	23
74	Molten sodium-induced graphitization towards highly crystalline and hierarchical porous graphene frameworks. 2D Materials, 2015, 2, 035016.	4.4	8
75	Pulsed laser deposition of Ag nanoparticles on titanium hydroxide/oxide nanobelt arrays for highly sensitive surface-enhanced Raman spectroscopy. Applied Surface Science, 2015, 347, 499-504.	6.1	7
76	Magnetic amine-functionalized polyacrylic acid-nanomagnetite for hexavalent chromium removal from polluted water. RSC Advances, 2015, 5, 60208-60219.	3.6	57
77	Co(OH)2 Nanosheets Coupled With CNT Arrays Grown on Ni Mesh for High-Rate Asymmetric Supercapacitors with Excellent Capacitive Behavior. Electrochimica Acta, 2015, 176, 77-85.	5.2	48
78	Asymmetric supercapacitors based on carbon nanotubes@NiO ultrathin nanosheets core-shell composites and MOF-derived porous carbon polyhedrons with super-long cycle life. Journal of Power Sources, 2015, 285, 281-290.	7.8	289
79	Functionalized highly porous graphitic carbon fibers for high-rate supercapacitive electrodes. Nano Energy, 2015, 13, 658-669.	16.0	187
80	Integrating three-dimensional graphene/Fe₃O₄@C composite and mesoporous Co(OH)₂ nanosheets arrays/graphene foam into a superior asymmetric electrochemical capacitor. RSC Advances, 2015, 5, 88191-88201.	3.6	19
81	Advanced asymmetric supercapacitors based on CNT@Ni(OH)₂ coreâ€“shell composites and 3D graphene networks. Journal of Materials Chemistry A, 2015, 3, 19545-19555.	10.3	138
82	Facile synthesis of mesoporous cobalt oxide rugby balls for electrochemical energy storage. New Journal of Chemistry, 2015, 39, 68-71.	2.8	12
83	A High Energy and Power Liâ€ion Capacitor Based on a TiO₂ Nanobelt Array Anode and a Graphene Hydrogel Cathode. Small, 2015, 11, 1470-1477.	10.0	256
84	Polyethylenimine Facilitated Ethyl Cellulose for Hexavalent Chromium Removal with a Wide pH Range. ACS Applied Materials & Interfaces, 2014, 6, 19816-19824.	8.0	163
85	Hierarchical TiN@Ni(OH)2 core/shell nanowire arrays for supercapacitor application. Electrochimica Acta, 2014, 116, 372-378.	5.2	23
86	One-step strategy to three-dimensional graphene/VO₂nanobelt composite hydrogels for high performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 1165-1173.	10.3	214
87	Asymmetric supercapacitors based on nano-architectured nickel oxide/graphene foam and hierarchical porous nitrogen-doped carbon nanotubes with ultrahigh-rate performance. Journal of Materials Chemistry A, 2014, 2, 3223-3230.	10.3	242
88	Magnetic graphene oxide nanocomposites: nanoparticles growth mechanism and property analysis. Journal of Materials Chemistry C, 2014, 2, 9478-9488.	5.5	92
89	Pulsed laser deposited Ag nanoparticles on nickel hydroxide nanosheet arrays for highly sensitive surface-enhanced Raman scattering spectroscopy. Applied Surface Science, 2014, 316, 66-71.	6.1	19
90	Anthraquinone on Porous Carbon Nanotubes with Improved Supercapacitor Performance. Journal of Physical Chemistry C, 2014, 118, 8262-8270.	3.1	146

#	Article	IF	Citations
91	One-step preparation of single-crystalline Fe2O3 particles/graphene composite hydrogels as high performance anode materials for supercapacitors. Nano Energy, 2014, 7, 86-96.	16.0	380
92	Pulsed laser deposition of large-area manganese oxide nanosheet arrays for high-rate supercapacitors. New Journal of Chemistry, 2013, 37, 869.	2.8	22
93	The cobalt oxide/hydroxide nanowall array film prepared by pulsed laser deposition for supercapacitors with superb-rate capability. Electrochimica Acta, 2013, 92, 298-303.	5.2	43
94	Growing Nickel Cobaltite Nanowires and Nanosheets on Carbon Cloth with Different Pseudocapacitive Performance. ACS Applied Materials & Interfaces, 2013, 5, 6255-6260.	8.0	132
95	Facile synthesis of a nano-structured nickel oxide electrode with outstanding pseudocapacitive properties. Electrochimica Acta, 2013, 105, 353-361.	5.2	97
96	Synthesis and Characterization of NiCo₂O₄ Nanoflower/Activated Carbon Fiber Composite and Its Supercapacitor Properties. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2013, 29, 1501-1506.	4.9	6
97	Cutting and Unzipping Multiwalled Carbon Nanotubes into Curved Graphene Nanosheets and Their Enhanced Supercapacitor Performance. ACS Applied Materials & Interfaces, 2012, 4, 6827-6834.	8.0	119
98	Pulsed laser deposition of the porous nickel oxide thin film at room temperature for high-rate pseudocapacitive energy storage. Electrochemistry Communications, 2012, 18, 92-95.	4.7	48
99	Design and synthesis of NiCo2O4â€“reduced graphene oxide composites for high performance supercapacitors. Journal of Materials Chemistry, 2011, 21, 10504.	6.7	332
100	Zinc Oxide/Reduced Graphene Oxide Composites and Electrochemical Capacitance Enhanced by Homogeneous Incorporation of Reduced Graphene Oxide Sheets in Zinc Oxide Matrix. Journal of Physical Chemistry C, 2011, 115, 2563-2571.	3.1	342
101	Preparation of reduced graphene oxide/cobalt oxide composites and their enhanced capacitive behaviors by homogeneous incorporation of reduced graphene oxide sheets in cobalt oxide matrix. Materials Chemistry and Physics, 2011, 130, 672-679.	4.0	139
102	Tert-butylhydroquinone-decorated graphene nanosheets and their enhanced capacitive behaviors. Science Bulletin, 2011, 56, 2092-2097.	1.7	27
103	Layered Alâ€substituted Cobalt Hydroxides/GO Composites for Electrode Materials of Supercapacitors. Chinese Journal of Chemistry, 2011, 29, 2257-2262.	4.9	5
104	Ce-Doped Mn₃O₄ and Its Electrochemical Capacitive Behavior. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2011, 27, 1673-1678.	4.9	2
105	Facile solvothermal synthesis of a graphene nanosheetâ€“bismuth oxide composite and its electrochemical characteristics. Electrochimica Acta, 2010, 55, 8974-8980.	5.2	153