

Heng-Guo Wang

List of Publications by Year in descending order

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papers

6,708
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71061

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8627
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#	ARTICLE	IF	CITATIONS
1	A redox-active metal-organic compound for lithium/sodium-based dual-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1024-1030.	5.0	11
2	Recent developments in electrode materials for dual-ion batteries: Potential alternatives to conventional batteries. <i>Materials Today</i> , 2022, 52, 269-298.	8.3	60
3	Porphyrin-based conjugated microporous polymers with dual active sites as anode materials for lithium-organic batteries. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 10902-10910.	3.8	14
4	A Simple Synthesis of Fe ₂ P Nanoparticles Encapsulated Doped Carbon Nanotube as Electrocatalysts for Oxygen Reduction Reaction and Zinc-Air Battery. <i>Energy Technology</i> , 2022, 10, .	1.8	5
5	Cobalt Nanoparticles Embedded into Nitrogen-doped Graphene with Abundant Macropores as a Bifunctional Electrocatalyst for Rechargeable Zinc-air Batteries. <i>Chemistry - an Asian Journal</i> , 2022, , .	1.7	0
6	Conjugated ladder-type polymers with multielectron reactions as high-capacity organic anode materials for lithium-ion batteries. <i>Science China Materials</i> , 2022, 65, 2354-2362.	3.5	15
7	One-dimensional π -d conjugated coordination polymer with double redox-active centers for all-organic symmetric lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 450, 138052.	6.6	11
8	Integrated pyrazine-based porous aromatic frameworks/carbon nanotube composite as cathode materials for aqueous zinc ion batteries. <i>Chemical Engineering Journal</i> , 2022, 450, 138051.	6.6	19
9	Electropolymerizations and electrochromic performances of tetrathiafulvalene- β -thiophenes. <i>Polymer Bulletin</i> , 2021, 78, 5953-5961.	1.7	0
10	A bipolar metal phthalocyanine complex for sodium dual-ion battery. <i>Journal of Energy Chemistry</i> , 2021, 58, 9-16.	7.1	47
11	Doped graphene encapsulated SnP ₂ O ₇ with enhanced conversion reactions from polyanions as a versatile anode material for sodium dual-ion battery. <i>Electrochimica Acta</i> , 2021, 369, 137657.	2.6	19
12	Conjugated Microporous Polymers with Bipolar and Double Redox-Active Centers for High-Performance Dual-Ion, Organic Symmetric Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2100381.	10.2	41
13	Recent progress in conjugated microporous polymers for clean energy: Synthesis, modification, computer simulations, and applications. <i>Progress in Polymer Science</i> , 2021, 115, 101374.	11.8	117
14	Carbonyl-rich Poly(pyrene-4,5,9,10-tetraone Sulfide) as Anode Materials for High-Performance Li and Na-ion Batteries. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1973-1978.	1.7	12
15	Well-dispersed Sb ₂ O ₃ nanoparticles encapsulated in multi-channel-carbon nanofibers as high-performance anode materials for Li/dual-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 26308-26317.	3.8	10
16	Conjugated microporous polyarylimides immobilization on carbon nanotubes with improved utilization of carbonyls as cathode materials for lithium/sodium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 446-453.	5.0	36
17	Corrigendum to "Carbonized cotton fiber supported flexible organic lithium ion battery cathodes" [J. Colloid Interface Sci. 572 (2020) 1-8]. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 901.	5.0	0
18	A facile one-pot synthesis of Co ₂ P nanoparticle-encapsulated doped carbon nanotubes as bifunctional electrocatalysts for high-performance rechargeable Zn-air batteries. <i>CrystEngComm</i> , 2021, 23, 1013-1018.	1.3	10

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19	Heteroatom-doped hollow carbon material as an electrocatalyst for oxygen reduction reaction. <i>Journal of Physics: Conference Series</i> , 2021, 2079, 012007.	0.3	0
20	Carbonyl-based polyimide immobilization on carbon nanotubes for aqueous zinc-ion batteries. <i>Journal of Physics: Conference Series</i> , 2021, 2085, 012032.	0.3	0
21	Hyper-Crosslinked Polymer-Derived Nitrogen-Doped Hierarchical Porous Carbon as Metal-Free Electrocatalysts for High-Efficiency Oxygen Reduction. <i>Energy & Fuels</i> , 2021, 35, 19614-19623.	2.5	3
22	ZIF-67-aerogel-derived N-doped carbon nanotubes encapsulated with Co nanoparticles as efficient electrocatalysts. <i>Journal of Physics: Conference Series</i> , 2021, 2085, 012030.	0.3	0
23	Multi-heteroatom-doped dual carbon-confined Fe ₃ O ₄ nanospheres as high-capacity and long-life anode materials for lithium/sodium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 565, 494-502.	5.0	44
24	A Self-Polymerized Nitro-Substituted Conjugated Carbonyl Compound as High-Performance Cathode for Lithium-Organic Batteries. <i>ChemSusChem</i> , 2020, 13, 2449-2456.	3.6	41
25	New and convergent synthesis of saflufenacil. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 151-156.	1.4	1
26	Metal phthalocyanine-linked conjugated microporous polymer hybridized with carbon nanotubes as a high-performance flexible electrode for supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22950-22958.	3.8	37
27	Metal Phthalocyanine-Porphyrin-based Conjugated Microporous Polymer-derived Bifunctional Electrocatalysts for Zn-Air Batteries. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1970-1975.	1.7	14
28	Embedding Co ₂ P nanoparticles into co-doped carbon hollow polyhedron as a bifunctional electrocatalyst for efficient overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 16540-16549.	3.8	44
29	Synthesis and characterization of tetrathiafulvalene- <i>thiophene</i> dyads. <i>Journal of Chemical Sciences</i> , 2020, 132, 1.	0.7	2
30	Electrospun carbon nanofiber decorated with Co-Ni alloy nanoparticles as a bifunctional electrocatalyst for Zn-air battery. <i>Materials Letters</i> , 2020, 275, 128135.	1.3	4
31	An aromatic carbonyl compound-linked conjugated microporous polymer as an advanced cathode material for lithium-organic batteries. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2697-2703.	3.2	34
32	Graphene encapsulated metallic state Ce ₂ Sn ₂ O ₇ as a novel anode material for superior lithium-ion batteries and capacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5517-5524.	5.2	31
33	Second Time-Scale Synthesis of High-Quality Graphite Films by Quenching for Effective Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2020, 14, 3121-3128.	7.3	57
34	Carbonized cotton fiber supported flexible organic lithium ion battery cathodes. <i>Journal of Colloid and Interface Science</i> , 2020, 572, 1-8.	5.0	13
35	Metallophthalocyanine-Based Polymer-Derived Co ₂ P Nanoparticles Anchoring on Doped Graphene as High-Efficient Trifunctional Electrocatalyst for Zn-Air Batteries and Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6422-6432.	3.2	63
36	Synthesis, electropolymerization, and electrochromic performances of two novel tetrathiafulvalene- <i>thiophene</i> assemblies. <i>E-Polymers</i> , 2020, 20, 382-392.	1.3	1

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37	Conjugated Carbonyl Polymer-Based Flexible Cathode for Superior Lithium-Organic Batteries. ACS Applied Materials & Interfaces, 2019, 11, 28801-28808.	4.0	64
38	A New Synthesis of Cabozantinib. Organic Preparations and Procedures International, 2019, 51, 381-387.	0.6	4
39	Improved Damping and High Strength of Graphene-Coated Nickel Hybrid Foams. ACS Applied Materials & Interfaces, 2019, 11, 42690-42696.	4.0	21
40	A Bipolar and Self-Polymerized Phthalocyanine Complex for Fast and Tunable Energy Storage in Dual-Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 10204-10208.	7.2	78
41	A Bipolar and Self-Polymerized Phthalocyanine Complex for Fast and Tunable Energy Storage in Dual-Ion Batteries. Angewandte Chemie, 2019, 131, 10310-10314.	1.6	24
42	N, P, S tri-doped hollow carbon nanosphere as a high-efficient bifunctional oxygen electrocatalyst for rechargeable Zn-air batteries. Applied Surface Science, 2019, 490, 47-55.	3.1	44
43	Co nanoparticles encapsulated in N-doped carbon nanofibers as bifunctional catalysts for rechargeable Zn-air battery. Applied Surface Science, 2019, 478, 560-566.	3.1	41
44	Controllable edge modification of multi-layer graphene for improved dispersion stability and high electrical conductivity. Applied Nanoscience (Switzerland), 2019, 9, 469-477.	1.6	8
45	Molecular Engineering of Monodisperse SnO ₂ Nanocrystals Anchored on Doped Graphene with High-Performance Lithium/Sodium-Storage Properties in Half/Full Cells. Advanced Energy Materials, 2019, 9, 1802993.	10.2	129
46	In Situ Coupling Strategy for Anchoring Monodisperse Co ₉ S ₈ Nanoparticles on S and N Dual-Doped Graphene as a Bifunctional Electrocatalyst for Rechargeable Zn-Air Battery. Nano-Micro Letters, 2019, 11, 4.	14.4	74
47	Dual Carbon-Confined SnO ₂ Hollow Nanospheres Enabling High Performance for the Reversible Storage of Alkali Metal Ions. ACS Applied Materials & Interfaces, 2018, 10, 15642-15651.	4.0	87
48	Synthesis of zincphthalocyanine-based conjugated microporous polymers with rigid-linker as novel and green heterogeneous photocatalysts. Journal of Hazardous Materials, 2018, 348, 47-55.	6.5	46
49	Free-standing and flexible organic cathode based on aromatic carbonyl compound/carbon nanotube composite for lithium and sodium organic batteries. Journal of Colloid and Interface Science, 2018, 517, 72-79.	5.0	51
50	Conjugated microporous polymers bearing metallophthalocyanine moieties with enhanced visible-light photocatalytic activity. Dyes and Pigments, 2018, 149, 261-267.	2.0	24
51	Complexing agent engineered strategy for anchoring SnO ₂ nanoparticles on sulfur/nitrogen co-doped graphene for superior lithium and sodium ion storage. Chemical Engineering Journal, 2018, 332, 237-244.	6.6	53
52	Synthesis of α -glycosidase hybrid nano-flowers and their application for enriching and screening α -glycosidase inhibitors. New Journal of Chemistry, 2018, 42, 429-436.	1.4	10
53	Nanoengineered Ultralight Organic Cathode Based on Aromatic Carbonyl Compound/Graphene Aerogel for Green Lithium and Sodium Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 8392-8399.	3.2	63
54	Organic Carbonyl Compounds for Sodium-Ion Batteries: Recent Progress and Future Perspectives. Chemistry - A European Journal, 2018, 24, 18235-18245.	1.7	65

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55	<i>In situ</i> anchoring of metal nanoparticles in the N-doped carbon framework derived from conjugated microporous polymers towards an efficient oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2018, 8, 3572-3579.	2.1	28
56	Enhanced toughness of multilayer graphene-filled poly(Vinyl chloride) composites prepared using melt-mixing method. <i>Polymer Composites</i> , 2017, 38, 138-146.	2.3	21
57	Facile synthesis of Co ₃ O ₄ -CeO ₂ composite oxide nanotubes and their multifunctional applications for lithium ion batteries and CO oxidation. <i>Journal of Colloid and Interface Science</i> , 2017, 494, 274-281.	5.0	53
58	Self-sacrifice template formation of nitrogen-doped porous carbon microtubes towards high performance anode materials in lithium ion batteries. <i>Chemical Engineering Journal</i> , 2017, 316, 1004-1010.	6.6	46
59	New Synthesis of 7-(3-chloropropoxy)-4-hydroxy-6-methoxyquinoline-3-carbonitrile, a Key Intermediate to Bosutinib. <i>Journal of Heterocyclic Chemistry</i> , 2017, 54, 2237-2241.	1.4	1
60	New and Convergent Synthesis of Osimertinib. <i>Journal of Heterocyclic Chemistry</i> , 2017, 54, 2898-2901.	1.4	5
61	Cobalt-phthalocyanine-derived ultrafine Co ₃ O ₄ nanoparticles as high-performance anode materials for lithium ion batteries. <i>Applied Surface Science</i> , 2017, 414, 398-404.	3.1	19
62	Flexible Electrodes for Sodium-ion Batteries: Recent Progress and Perspectives. <i>Advanced Materials</i> , 2017, 29, 1703012.	11.1	156
63	Nitrogen doped carbon nanofiber derived from polypyrrole functionalized polyacrylonitrile for applications in lithium-ion batteries and oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 154-161.	5.0	47
64	Single-spinneret electrospinning fabrication of CoFe ₂ O ₄ nanotubes as high-performance anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2016, 172, 64-67.	1.3	30
65	Facile fabrication of Co ₃ O ₄ /nitrogen-doped graphene hybrid materials as high performance anode materials for lithium ion batteries. <i>CrystEngComm</i> , 2016, 18, 3383-3388.	1.3	19
66	A photo- and thermo-responsive star-shaped diblock copolymer with a porphyrin core prepared via consecutive ATRPs. <i>RSC Advances</i> , 2016, 6, 47912-47918.	1.7	12
67	A Biodegradable Polydopamine-Derived Electrode Material for High-Capacity and Long-Life Lithium-ion and Sodium-ion Batteries. <i>Angewandte Chemie</i> , 2016, 128, 10820-10824.	1.6	131
68	A Biodegradable Polydopamine-Derived Electrode Material for High-Capacity and Long-Life Lithium-ion and Sodium-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10662-10666.	7.2	325
69	Designing multi-shelled metal oxides: towards high energy-density lithium-ion batteries. <i>Science China Materials</i> , 2016, 59, 521-522.	3.5	12
70	Nitrogen-doped porous graphene with surface decorated MnO ₂ nanowires as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7251-7256.	5.2	39
71	Kilogram Synthesis of Crebinostat. <i>Synthesis</i> , 2016, 48, 1318-1321.	1.2	1
72	Nitrogen-doped porous carbon/Sn composites as high capacity and long life anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2015, 155, 18-22.	1.3	14

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73	Fabrication, formation mechanism and the application in lithium-ion battery of porous Fe ₂ O ₃ nanotubes via single-spinneret electrospinning. <i>Electrochimica Acta</i> , 2015, 158, 105-112.	2.6	79
74	A Practical Synthesis of 7-(3-Chloropropoxy)-6-methoxy-4-oxo-1,4-dihydroquinoline-3-carbonitrile, a Key Intermediate to Bosutinib. <i>Organic Preparations and Procedures International</i> , 2015, 47, 207-213.	0.6	4
75	Electrospun materials for lithium and sodium rechargeable batteries: from structure evolution to electrochemical performance. <i>Energy and Environmental Science</i> , 2015, 8, 1660-1681.	15.6	362
76	Fe ₃ O ₄ -nanoparticle-decorated TiO ₂ nanofiber hierarchical heterostructures with improved lithium-ion battery performance over wide temperature range. <i>Nano Research</i> , 2015, 8, 1659-1668.	5.8	33
77	Nitrogen and sulfur dual-doped graphene sheets as anode materials with superior cycling stability for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 184, 24-31.	2.6	45
78	Multi-ring aromatic carbonyl compounds enabling high capacity and stable performance of sodium-organic batteries. <i>Energy and Environmental Science</i> , 2015, 8, 3160-3165.	15.6	155
79	Exceptional electrochemical performance of nitrogen-doped porous carbon for lithium storage. <i>Carbon</i> , 2015, 82, 116-123.	5.4	102
80	Dual-frequency microwave-driven resonant excitations of skyrmions in nanoscale magnets. <i>RSC Advances</i> , 2014, 4, 62179-62185.	1.7	7
81	Engraving Copper Foil to Give Large-Scale Binder-Free Porous CuO Arrays for a High-Performance Sodium-Ion Battery Anode. <i>Advanced Materials</i> , 2014, 26, 2273-2279.	11.1	427
82	Electrodes: Engraving Copper Foil to Give Large-Scale Binder-Free Porous CuO Arrays for a High-Performance Sodium-Ion Battery Anode (Adv. Mater. 14/2014). <i>Advanced Materials</i> , 2014, 26, 2284-2284.	11.1	9
83	Tailored Aromatic Carbonyl Derivative Polyimides for High-Power and Long-Cycle Sodium-Organic Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1301651.	10.2	319
84	One-step facile synthesis of TiO ₂ /Fe ₂ O ₃ fiber-in-tube hierarchical heterostructures with improved lithium-ion battery performance. <i>RSC Advances</i> , 2014, 4, 23125.	1.7	22
85	Positive temperature coefficient thermistors based on carbon nanotube/polymer composites. <i>Scientific Reports</i> , 2014, 4, 6684.	1.6	89
86	Electrostatic Induced Stretch Growth of Homogeneous ²⁺ Ni(OH) ₂ on Graphene with Enhanced High-Rate Cycling for Supercapacitors. <i>Scientific Reports</i> , 2014, 4, 3669.	1.6	222
87	Flower-like dynamics of coupled Skyrmions with dual resonant modes by a single-frequency microwave magnetic field. <i>Scientific Reports</i> , 2014, 4, 6153.	1.6	43
88	Nitrogen-Doped Porous Carbon Nanosheets as Low-Cost, High-Performance Anode Material for Sodium-Ion Batteries. <i>ChemSusChem</i> , 2013, 6, 56-60.	3.6	593
89	<i>In Situ</i> Fabrication of Porous Graphene Electrodes for High-Performance Energy Storage. <i>ACS Nano</i> , 2013, 7, 2422-2430.	7.3	394
90	Homogeneous CoO on Graphene for Binder-Free and Ultralong-Life Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 4345-4353.	7.8	333

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91	Batteries: Homogeneous CoO on Graphene for Binder-Free and Ultralong-Life Lithium Ion Batteries (Adv. Funct. Mater. 35/2013). Advanced Functional Materials, 2013, 23, 4274-4274.	7.8	17
92	Optimal electromagnetic-wave absorption by enhanced dipole polarization in Ni/C nanocapsules. Applied Physics Letters, 2012, 101, 083116.	1.5	141
93	Regioselective chlorination and bromination of unprotected anilines under mild conditions using copper halides in ionic liquids. Beilstein Journal of Organic Chemistry, 2012, 8, 744-748.	1.3	12
94	General and Controllable Synthesis Strategy of Metal Oxide/TiO ₂ Hierarchical Heterostructures with Improved Lithium-Ion Battery Performance. Scientific Reports, 2012, 2, 701.	1.6	195
95	Three-dimensionally ordered macroporous FeF ₃ and its in situ homogenous polymerization coating for high energy and power density lithium ion batteries. Energy and Environmental Science, 2012, 5, 8538.	15.6	213
96	Electrospun V ₂ O ₅ Nanostructures with Controllable Morphology as High-Performance Cathode Materials for Lithium-Ion Batteries. Chemistry - A European Journal, 2012, 18, 8987-8993.	1.7	153
97	Highly Stereoselective and Practical Synthesis of α -Trichloromethyl Amines and 2,2-Dichloroaziridines from Chloroform. Advanced Synthesis and Catalysis, 2012, 354, 308-312.	2.1	27