Yanhui Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

84	1,941	218677	302126
papers	citations	26 h-index	39 g-index

84	84	84	2633
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	One-Step Synthesis of Heterostructural MoS₂-(FeNi)₉S₈ on Niâ€“Fe Foam Synergistically Boosting for Efficient Fresh/Seawater Electrolysis. ACS Applied Energy Materials, 2022, 5, 1810-1821.	5.1	17
2	A film electrode composed of micron-diamond embedded in phenolic resin derived amorphous carbon for electroanalysis of dopamine in the presence of uric acid. Journal of Electroanalytical Chemistry, 2022, , 116271.	3.8	0
3	One-step complexation and self-template strategy to synthesis bimetal Fe/Mnâ€“N doped interconnected hierarchical porous carbon for enhancing catalytic oxygen reduction reaction. International Journal of Hydrogen Energy, 2022, 47, 24728-24737.	7.1	8
4	Manganese coordinated with nitrogen in aligned hierarchical porous carbon for efficient electrocatalytic oxygen reduction reaction in alkaline and acidic medium. International Journal of Hydrogen Energy, 2021, 46, 543-554.	7.1	7
5	B, N Coâ€doped Nanocarbon Derived In Situ from Nanoboron Carbide as Electrocatalyst for Oxygen Reduction Reaction. ChemNanoMat, 2021, 7, 200-206.	2.8	6
6	One-step preparation of cobalt-doped NiS@MoS2 core-shell nanorods as bifunctional electrocatalyst for overall water splitting. Electrochimica Acta, 2021, 377, 138051.	5.2	55
7	Porous Ni Foams Filled by N-Doped Carbon Nanotubes Coated with N-Doped Ni₃P and Ni Nanoparticles for Catalytic Water Splitting. ACS Applied Nano Materials, 2021, 4, 7443-7453.	5.0	15
8	Amorphous Carbon Film with Selfâ€modified Carbon Nanoparticles Synthesized by Low Temperature Carbonization of Phenolic Resin for Simultaneous Sensing of Dopamine and Uric Acid. Electroanalysis, 2021, 33, 2252-2259.	2.9	4
9	Deflagration method synthesizing N, S co-doped oxygen-functionalized carbons as a bifunctional catalyst for oxygen reduction and oxygen evolution reaction. Carbon, 2021, 181, 234-245.	10.3	32
10	One-step carbonization of ZIF-8 in Mn-containing ambience to prepare Mn, N co-doped porous carbon as efficient oxygen reduction reaction electrocatalyst. International Journal of Hydrogen Energy, 2021, 46, 36742-36752.	7.1	15
11	Exploring the activation energy of diamond reacting with metals and metal oxides by first-principle calculation. Diamond and Related Materials, 2021, 118, 108522.	3.9	1
12	Self-supported amorphous nickel-iron phosphorusoxides hollow spheres on Ni-Fe foam for highly efficient overall water splitting. Electrochimica Acta, 2021, 392, 138996.	5.2	16
13	Nickel-cobalt phosphate nanoparticles wrapped in nitrogen-doped carbon loading on partially phosphatized foamed nickel as efficient electrocatalyst for water splitting. Chemical Engineering Journal, 2021, 426, 130854.	12.7	24
14	Nickel Boride/Boron Carbide Particles Embedded in Boronâ€Doped Phenolic Resinâ€Derived Carbon Coating on Nickel Foam for Oxygen Evolution Catalysis in Water and Seawater Splitting. ChemSusChem, 2021, 14, 5499-5507.	6.8	18
15	Electrospun single iron atoms dispersed carbon nanofibers as high performance electrocatalysts toward oxygen reduction reaction in acid and alkaline media. Journal of Colloid and Interface Science, 2020, 564, 134-142.	9.4	40
16	A salt induced gelatin crosslinking strategy to prepare Fe-N doped aligned porous carbon for efficient oxygen reduction reaction catalysts and high-performance supercapacitors. Journal of Catalysis, 2020, 382, 109-120.	6.2	39
17	In situ template reaction method to prepare three-dimensional interconnected Fe-N doped hierarchical porous carbon for efficient oxygen reduction reaction catalysts and high performance supercapacitors. Journal of Power Sources, 2020, 448, 227443.	7.8	21
18	Amorphous MoS2 coated Ni3S2 nanosheets as bifunctional electrocatalysts for high-efficiency overall water splitting. Electrochimica Acta, 2020, 332, 135454.	5.2	65

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19	Amorphous NiFeâ€“OH/Niâ€“Cuâ€“P supported on self-supporting expanded graphite sheet as efficient bifunctional electrocatalysts for overall water splitting. International Journal of Hydrogen Energy, 2020, 45, 30387-30395.	7.1	7
20	Simultaneous electrochemical preparation and reduction of graphene with low oxygen content and its electrochemical properties for high-performance supercapacitors. Journal of Materials Science: Materials in Electronics, 2020, 31, 14128-14136.	2.2	3
21	Feâ€“Nâ€“Si tri-doped carbon nanofibers for efficient oxygen reduction reaction in alkaline and acidic media. International Journal of Hydrogen Energy, 2020, 45, 28792-28799.	7.1	6
22	Threeâ€Ðimensional Transition Metal Phosphide Heteronanorods for Efficient Overall Water Splitting. ChemSusChem, 2020, 13, 3718-3725.	6.8	23
23	Mn3O4 nanosheets coated on carbon nanotubes as efficient electrocatalysts for oxygen reduction reaction. International Journal of Hydrogen Energy, 2020, 45, 6529-6537.	7.1	9
24	Electroless deposition of Niâ€“Cuâ€“P on a self-supporting graphene with enhanced hydrogen evolution reaction activity. International Journal of Hydrogen Energy, 2020, 45, 13985-13993.	7.1	20
25	Ruthenium and cobalt bimetal encapsulated in nitrogen-doped carbon material derived of ZIF-67 as enhanced hydrogen evolution electrocatalyst. Applied Surface Science, 2019, 494, 101-110.	6.1	53
26	TiO2-loaded boron self-doped carbon derived from nano boron carbide as a non-noble metal bifunctional electrocatalyst for oxygen reduction and evolution reactions. Catalysis Communications, 2019, 129, 105742.	3.3	12
27	â€œFryingâ€•milk powder by molten salt to prepare nitrogen-doped hierarchical porous carbon for high performance supercapacitor. Journal of Alloys and Compounds, 2019, 806, 650-659.	5.5	24
28	N-doped 3D porous carbon catalyst derived from biowaste Triarrhena sacchariflora panicle for oxygen reduction reaction. Carbon, 2019, 146, 70-77.	10.3	29
29	Synthesis of novel nanocomposites reinforced with 3D graphene/highly-dispersible nanodiamonds nano-hybrids. Ceramics International, 2019, 45, 13158-13163.	4.8	8
30	Ternary NiFeZr layered double hydroxides: a highly efficient catalyst for the oxygen evolution reaction. Chemical Communications, 2019, 55, 13370-13373.	4.1	36
31	Uniform dispersion of nano-Al2O3 particles in the 3D graphene network of ternary nanocomposites. Ceramics International, 2019, 45, 3407-3413.	4.8	7
32	Graphene/phenolic resin-based porous carbon composites with improved conductivity prepared via in situ polymerization in graphene hydrogels. Journal of Materials Science, 2019, 54, 2222-2230.	3.7	7
33	Microwave synthesis and properties of MnO2/CNTs non-precious metal catalyst for oxygen reduction reaction in alkaline solution. Journal of Applied Electrochemistry, 2018, 48, 157-164.	2.9	12
34	Comparison study of Fe-based matrix composites reinforced with Ti-coated and Mo-coated SiC particles. Materials Chemistry and Physics, 2018, 204, 154-162.	4.0	10
35	Co₂B and Co Nanoparticles Immobilized on the Nâ€“B-Doped Carbon Derived from Nano-B₄C for Efficient Catalysis of Oxygen Evolution, Hydrogen Evolution, and Oxygen Reduction Reactions. ACS Applied Materials & Interfaces, 2018, 10, 37067-37078.	8.0	47
36	A novel synthesis of Prussian blue nanocubes/biomass-derived nitrogen-doped porous carbon composite as a high-efficiency oxygen reduction reaction catalyst. Electrochimica Acta, 2018, 289, 56-64.	5.2	26

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37	Forging of High-Manganese Steel Crossing. Metallurgist, 2018, 62, 181-184.	0.6	0
38	Preparation of S/N co-doped graphene through a self-generated high gas pressure for high rate supercapacitor. Applied Surface Science, 2018, 456, 781-788.	6.1	49
39	Fe, N codoped porous carbon nanosheets for efficient oxygen reduction reaction in alkaline andÂacidic media. International Journal of Hydrogen Energy, 2018, 43, 14273-14280.	7.1	21
40	Spark plasma coating of tungsten-coated SiC particles. Powder Technology, 2017, 310, 282-286.	4.2	7
41	A microwave-assisted synthesis of CoO@Co coreâ€“shell structures coupled with N-doped reduced graphene oxide used as a superior multi-functional electrocatalyst for hydrogen evolution, oxygen reduction and oxygen evolution reactions. Journal of Materials Chemistry A, 2017, 5, 5865-5872.	10.3	78
42	Effects of electrolyte concentration and current density on the properties of electro-deposited NiFeW alloy coatings. Bulletin of Materials Science, 2017, 40, 577-582.	1.7	5
43	Investigation of Ti coatings on cubic boron nitride (cBN) grits by discharge treatment in spark plasma sintering system. Advanced Powder Technology, 2017, 28, 2281-2287.	4.1	6
44	Low content of Pt supported on Ni-MoC x /carbon black as a highly durable and active electrocatalyst for methanol oxidation, oxygen reduction and hydrogen evolution reactions in acidic condition. Applied Surface Science, 2017, 412, 327-334.	6.1	24
45	High-efficiency grinding CVD diamond films by Fe-Ce containing corundum grinding wheels. Diamond and Related Materials, 2017, 80, 5-13.	3.9	14
46	Molybdenum oxide and molybdenum carbide coated carbon black as an electrocatalyst for hydrogen evolution reaction in acidic media. International Journal of Hydrogen Energy, 2017, 42, 26985-26994.	7.1	28
47	A simple synthetic route of N-doped mesoporous carbon derived from casein extracted with cobalt ions for high rate performance supercapacitors. Electrochimica Acta, 2017, 250, 16-24.	5.2	14
48	Tungsten-coated nano-boron carbide as a non-noble metal bifunctional electrocatalyst for oxygen evolution and hydrogen evolution reactions in alkaline media. Nanoscale, 2017, 9, 19176-19182.	5.6	27
49	Preparation of the gradient Mo layers on diamond grits by spark plasma sintering and their effect on Fe-based matrix diamond composites. Journal of Alloys and Compounds, 2017, 695, 70-75.	5.5	18
50	Rolling Contact Fatigue Performances of Carburized and High-C Nanostructured Bainitic Steels. Materials, 2016, 9, 960.	2.9	24
51	Preparation and Characterization of Zirconia-Coated Nanodiamonds as a Pt Catalyst Support for Methanol Electro-Oxidation. Nanomaterials, 2016, 6, 234.	4.1	7
52	Reactive sintering cBN-Ti-Al composites by spark plasma sintering. Diamond and Related Materials, 2016, 69, 138-143.	3.9	38
53	A hybrid of NiMo-Mo2C/C as non-noble metal electrocatalyst for hydrogen evolution reaction in an acidic solution. Electrochimica Acta, 2016, 222, 747-754.	5.2	51
54	High performance and bifunctional cobalt-embedded nitrogen doped carbon/nanodiamond electrocatalysts for oxygen reduction and oxygen evolution reactions in alkaline media. Journal of Power Sources, 2016, 305, 64-71.	7.8	54

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55	One-step synthesis of shell/core structural boron and nitrogen co-doped graphitic carbon/nanodiamond as efficient electrocatalyst for the oxygen reduction reaction in alkaline media. Electrochimica Acta, 2016, 194, 161-167.	5.2	34
56	An efficient preparation of N-doped mesoporous carbon derived from milk powder for supercapacitors and fuel cells. Electrochimica Acta, 2016, 196, 527-534.	5.2	49
57	Fabrication of bulk nano-SiC via in-situ reaction of coreâ€“shell structural SiC@C with Si using high pressure high temperature sintering method. Materials Letters, 2015, 144, 69-73.	2.6	6
58	A hybrid of titanium nitride and nitrogen-doped amorphous carbon supported on SiC as a noble metal-free electrocatalyst for oxygen reduction reaction. Chemical Communications, 2015, 51, 2625-2628.	4.1	25
59	Characteristics of bulk liquid undercooling and crystallization behaviors of jet electrodeposition Niâ€“Wâ€“P alloy. Bulletin of Materials Science, 2015, 38, 157-161.	1.7	2
60	A self-supporting graphene/MnO2 composite for high-performance supercapacitors. International Journal of Hydrogen Energy, 2015, 40, 10176-10184.	7.1	53
61	Nanodiamond/nitrogen-doped graphene (core/shell) as an effective and stable metal-free electrocatalyst for oxygen reduction reaction. Electrochimica Acta, 2015, 174, 1017-1022.	5.2	19
62	Inhibiting the oxidation of diamond during preparing the vitrified dental grinding tools by depositing a ZnO coating using direct urea precipitation method. Materials Science and Engineering C, 2015, 53, 23-28.	7.3	18
63	A novel support of nano titania modified graphitized nanodiamond for Pt electrocatalyst in direct methanol fuel cell. International Journal of Hydrogen Energy, 2015, 40, 4540-4547.	7.1	19
64	Preparation of self-supporting graphene on flexible graphite sheet and electrodeposition of polyaniline for supercapacitor. Electrochimica Acta, 2015, 167, 254-261.	5.2	64
65	Nano Titania Modified Nanodiamonds as Stable Electrocatalyst Supports for Direct Methanol Fuel Cells. Journal of the Electrochemical Society, 2015, 162, F211-F215.	2.9	17
66	Graphitized Nanodiamond as Highly Efficient Support of Electrocatalysts for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2014, 161, F185-F191.	2.9	10
67	One-pot synthesis of a Mn(MnO)/Mn₅C₂/carbon nanotube nanocomposite for supercapacitors. RSC Advances, 2014, 4, 64162-64168.	3.6	9
68	Platinum nanoparticles supported on epitaxial TiC/nanodiamond as an electrocatalyst with enhanced durability for fuel cells. Carbon, 2014, 67, 409-416.	10.3	35
69	Coreâ€“shell structured SiC@C supported platinum electrocatalysts for direct methanol fuel cells. Applied Catalysis B: Environmental, 2014, 144, 166-173.	20.2	36
70	Synthesis of an architectural electrode based on manganese oxide and carbon nanotubes for flexible supercapacitors. Materials Letters, 2014, 126, 24-27.	2.6	12
71	Si₃N₄whiskers modified with titanium as stable Pt electrocatalyst supports for methanol oxidation and oxygen reduction. Journal of Materials Chemistry A, 2014, 2, 17815-17819.	10.3	14
72	Core-shell structural nanodiamond@TiN supported Pt nanoparticles as a highly efficient and stable electrocatalyst for direct methanol fuel cells. Electrochimica Acta, 2014, 148, 8-14.	5.2	27

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73	A Ti-coated nano-SiC supported platinum electrocatalyst for improved activity and durability in direct methanol fuel cells. Journal of Materials Chemistry A, 2014, 2, 10146.	10.3	41
74	Oxidized carbon/nano-SiC supported platinum nanoparticles as highly stable electrocatalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2014, 39, 16310-16317.	7.1	11
75	One-pot synthesis of shell/core structural N-doped carbide-derived carbon/SiC particles as electrocatalysts for oxygen reduction reaction. Carbon, 2014, 69, 630-633.	10.3	12
76	Graphitized nanodiamond supporting PtNi alloy as stable anodic and cathodic electrocatalysts for direct methanol fuel cell. Electrochimica Acta, 2013, 113, 583-590.	5.2	54
77	Synthesis of shell/core structural nitrogen-doped carbon/silicon carbide and its electrochemical properties as a cathode catalyst for fuel cells. Electrochemistry Communications, 2013, 37, 40-44.	4.7	12
78	Controllable Fabrication and Characterization of Si-coated Multiwalled Carbon Nanotubes. Integrated Ferroelectrics, 2013, 146, 22-28.	0.7	2
79	<i>In</i>-<i>Situ</i> TEM Study of Hydrogen-Induced Cracking in Carbide-Free Bainitic Steel. Materials Transactions, 2013, 54, 729-731.	1.2	0
80	Depression Effects of Al on Oxidation of Diamond During Sintering of Diamond/Borosilicate Glass Composites. International Journal of Applied Ceramic Technology, 2012, 9, 143-148.	2.1	3
81	Graphene growth on nanodiamond as a support for a Pt electrocatalyst in methanol electro-oxidation. Carbon, 2012, 50, 3032-3038.	10.3	45
82	Bucky diamond produced by annealing nanodiamond as a support of Pt electrocatalyst for methanol electrooxidation. International Journal of Hydrogen Energy, 2012, 37, 6349-6355.	7.1	26
83	Surface modification and electrochemical behaviour of undoped nanodiamonds. Electrochimica Acta, 2012, 72, 68-73.	5.2	30
84	Synthesis and Characterization of Coreâ^'Shell Structural MWNTâ^'Zirconia Nanocomposites. Nano Letters, 2008, 8, 4070-4074.	9.1	69