

Yanhui Wang

List of Publications by Year in descending order

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84
papers

1,941
citations

218677

26
h-index

302126

39
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84
all docs

84
docs citations

84
times ranked

2633
citing authors

#	ARTICLE	IF	CITATIONS
1	A microwave-assisted synthesis of CoO@Co core-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. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5865-5872.	10.3	78
2	Synthesis and Characterization of Core-Shell Structural MWNT-Zirconia Nanocomposites. <i>Nano Letters</i> , 2008, 8, 4070-4074.	9.1	69
3	Amorphous MoS ₂ coated Ni ₃ S ₂ nanosheets as bifunctional electrocatalysts for high-efficiency overall water splitting. <i>Electrochimica Acta</i> , 2020, 332, 135454.	5.2	65
4	Preparation of self-supporting graphene on flexible graphite sheet and electrodeposition of polyaniline for supercapacitor. <i>Electrochimica Acta</i> , 2015, 167, 254-261.	5.2	64
5	One-step preparation of cobalt-doped NiS@MoS ₂ core-shell nanorods as bifunctional electrocatalyst for overall water splitting. <i>Electrochimica Acta</i> , 2021, 377, 138051.	5.2	55
6	Graphitized nanodiamond supporting PtNi alloy as stable anodic and cathodic electrocatalysts for direct methanol fuel cell. <i>Electrochimica Acta</i> , 2013, 113, 583-590.	5.2	54
7	High performance and bifunctional cobalt-embedded nitrogen doped carbon/nanodiamond electrocatalysts for oxygen reduction and oxygen evolution reactions in alkaline media. <i>Journal of Power Sources</i> , 2016, 305, 64-71.	7.8	54
8	A self-supporting graphene/MnO ₂ composite for high-performance supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 10176-10184.	7.1	53
9	Ruthenium and cobalt bimetal encapsulated in nitrogen-doped carbon material derived of ZIF-67 as enhanced hydrogen evolution electrocatalyst. <i>Applied Surface Science</i> , 2019, 494, 101-110.	6.1	53
10	A hybrid of NiMo-Mo ₂ C/C as non-noble metal electrocatalyst for hydrogen evolution reaction in an acidic solution. <i>Electrochimica Acta</i> , 2016, 222, 747-754.	5.2	51
11	An efficient preparation of N-doped mesoporous carbon derived from milk powder for supercapacitors and fuel cells. <i>Electrochimica Acta</i> , 2016, 196, 527-534.	5.2	49
12	Preparation of S/N co-doped graphene through a self-generated high gas pressure for high rate supercapacitor. <i>Applied Surface Science</i> , 2018, 456, 781-788.	6.1	49
13	Co ₂ B and Co Nanoparticles Immobilized on the N-B-Doped Carbon Derived from Nano-B ₄ C for Efficient Catalysis of Oxygen Evolution, Hydrogen Evolution, and Oxygen Reduction Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37067-37078.	8.0	47
14	Graphene growth on nanodiamond as a support for a Pt electrocatalyst in methanol electro-oxidation. <i>Carbon</i> , 2012, 50, 3032-3038.	10.3	45
15	A Ti-coated nano-SiC supported platinum electrocatalyst for improved activity and durability in direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10146.	10.3	41
16	Electrospun single iron atoms dispersed carbon nanofibers as high performance electrocatalysts toward oxygen reduction reaction in acid and alkaline media. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 134-142.	9.4	40
17	A salt induced gelatin crosslinking strategy to prepare Fe-N doped aligned porous carbon for efficient oxygen reduction reaction catalysts and high-performance supercapacitors. <i>Journal of Catalysis</i> , 2020, 382, 109-120.	6.2	39
18	Reactive sintering cBN-Ti-Al composites by spark plasma sintering. <i>Diamond and Related Materials</i> , 2016, 69, 138-143.	3.9	38

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19	Core-shell structured SiC@C supported platinum electrocatalysts for direct methanol fuel cells. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 166-173.	20.2	36
20	Ternary NiFeZr layered double hydroxides: a highly efficient catalyst for the oxygen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 13370-13373.	4.1	36
21	Platinum nanoparticles supported on epitaxial TiC/nanodiamond as an electrocatalyst with enhanced durability for fuel cells. <i>Carbon</i> , 2014, 67, 409-416.	10.3	35
22	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. <i>Electrochimica Acta</i> , 2016, 194, 161-167.	5.2	34
23	Deflagration method synthesizing N, S co-doped oxygen-functionalized carbons as a bifunctional catalyst for oxygen reduction and oxygen evolution reaction. <i>Carbon</i> , 2021, 181, 234-245.	10.3	32
24	Surface modification and electrochemical behaviour of undoped nanodiamonds. <i>Electrochimica Acta</i> , 2012, 72, 68-73.	5.2	30
25	N-doped 3D porous carbon catalyst derived from biowaste <i>Triarrhena sacchariflora</i> panicle for oxygen reduction reaction. <i>Carbon</i> , 2019, 146, 70-77.	10.3	29
26	Molybdenum oxide and molybdenum carbide coated carbon black as an electrocatalyst for hydrogen evolution reaction in acidic media. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26985-26994.	7.1	28
27	Core-shell structural nanodiamond@TiN supported Pt nanoparticles as a highly efficient and stable electrocatalyst for direct methanol fuel cells. <i>Electrochimica Acta</i> , 2014, 148, 8-14.	5.2	27
28	Tungsten-coated nano-boron carbide as a non-noble metal bifunctional electrocatalyst for oxygen evolution and hydrogen evolution reactions in alkaline media. <i>Nanoscale</i> , 2017, 9, 19176-19182.	5.6	27
29	Bucky diamond produced by annealing nanodiamond as a support of Pt electrocatalyst for methanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6349-6355.	7.1	26
30	A novel synthesis of Prussian blue nanocubes/biomass-derived nitrogen-doped porous carbon composite as a high-efficiency oxygen reduction reaction catalyst. <i>Electrochimica Acta</i> , 2018, 289, 56-64.	5.2	26
31	A hybrid of titanium nitride and nitrogen-doped amorphous carbon supported on SiC as a noble metal-free electrocatalyst for oxygen reduction reaction. <i>Chemical Communications</i> , 2015, 51, 2625-2628.	4.1	25
32	Rolling Contact Fatigue Performances of Carburized and High-C Nanostructured Bainitic Steels. <i>Materials</i> , 2016, 9, 960.	2.9	24
33	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. <i>Applied Surface Science</i> , 2017, 412, 327-334.	6.1	24
34	Preparation of nitrogen-doped hierarchical porous carbon for high performance supercapacitor by molten salt to prepare nitrogen-doped hierarchical porous carbon for high performance supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 806, 650-659.	5.5	24
35	Nickel-cobalt phosphate nanoparticles wrapped in nitrogen-doped carbon loading on partially phosphatized foamed nickel as efficient electrocatalyst for water splitting. <i>Chemical Engineering Journal</i> , 2021, 426, 130854.	12.7	24
36	Three-dimensional Transition Metal Phosphide Heteronanorods for Efficient Overall Water Splitting. <i>ChemSusChem</i> , 2020, 13, 3718-3725.	6.8	23

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37	Fe, N codoped porous carbon nanosheets for efficient oxygen reduction reaction in alkaline and acidic media. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14273-14280.	7.1	21
38	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. <i>Journal of Power Sources</i> , 2020, 448, 227443.	7.8	21
39	Electroless deposition of Ni-Cu-P on a self-supporting graphene with enhanced hydrogen evolution reaction activity. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 13985-13993.	7.1	20
40	Nanodiamond/nitrogen-doped graphene (core/shell) as an effective and stable metal-free electrocatalyst for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2015, 174, 1017-1022.	5.2	19
41	A novel support of nano titania modified graphitized nanodiamond for Pt electrocatalyst in direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4540-4547.	7.1	19
42	Inhibiting the oxidation of diamond during preparing the vitrified dental grinding tools by depositing a ZnO coating using direct urea precipitation method. <i>Materials Science and Engineering C</i> , 2015, 53, 23-28.	7.3	18
43	Preparation of the gradient Mo layers on diamond grits by spark plasma sintering and their effect on Fe-based matrix diamond composites. <i>Journal of Alloys and Compounds</i> , 2017, 695, 70-75.	5.5	18
44	Nickel Boride/Boron Carbide Particles Embedded in Boron-Doped Phenolic Resin-Derived Carbon Coating on Nickel Foam for Oxygen Evolution Catalysis in Water and Seawater Splitting. <i>ChemSusChem</i> , 2021, 14, 5499-5507.	6.8	18
45	Nano Titania Modified Nanodiamonds as Stable Electrocatalyst Supports for Direct Methanol Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2015, 162, F211-F215.	2.9	17
46	One-Step Synthesis of Heterostructural MoS ₂ -(FeNi) ₉ S ₈ on Ni-Cu-Fe Foam Synergistically Boosting for Efficient Fresh/Seawater Electrolysis. <i>ACS Applied Energy Materials</i> , 2022, 5, 1810-1821.	5.1	17
47	Self-supported amorphous nickel-iron phosphorus oxides hollow spheres on Ni-Fe foam for highly efficient overall water splitting. <i>Electrochimica Acta</i> , 2021, 392, 138996.	5.2	16
48	Porous Ni Foams Filled by N-Doped Carbon Nanotubes Coated with N-Doped Ni ₃ P and Ni Nanoparticles for Catalytic Water Splitting. <i>ACS Applied Nano Materials</i> , 2021, 4, 7443-7453.	5.0	15
49	One-step carbonization of ZIF-8 in Mn-containing ambience to prepare Mn, N co-doped porous carbon as efficient oxygen reduction reaction electrocatalyst. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 36742-36752.	7.1	15
50	Si ₃ N ₄ whiskers modified with titanium as stable Pt electrocatalyst supports for methanol oxidation and oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17815-17819.	10.3	14
51	High-efficiency grinding CVD diamond films by Fe-Ce containing corundum grinding wheels. <i>Diamond and Related Materials</i> , 2017, 80, 5-13.	3.9	14
52	A simple synthetic route of N-doped mesoporous carbon derived from casein extracted with cobalt ions for high rate performance supercapacitors. <i>Electrochimica Acta</i> , 2017, 250, 16-24.	5.2	14
53	Synthesis of shell/core structural nitrogen-doped carbon/silicon carbide and its electrochemical properties as a cathode catalyst for fuel cells. <i>Electrochemistry Communications</i> , 2013, 37, 40-44.	4.7	12
54	Synthesis of an architectural electrode based on manganese oxide and carbon nanotubes for flexible supercapacitors. <i>Materials Letters</i> , 2014, 126, 24-27.	2.6	12

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55	One-pot synthesis of shell/core structural N-doped carbide-derived carbon/SiC particles as electrocatalysts for oxygen reduction reaction. <i>Carbon</i> , 2014, 69, 630-633.	10.3	12
56	Microwave synthesis and properties of MnO ₂ /CNTs non-precious metal catalyst for oxygen reduction reaction in alkaline solution. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 157-164.	2.9	12
57	TiO ₂ -loaded boron self-doped carbon derived from nano boron carbide as a non-noble metal bifunctional electrocatalyst for oxygen reduction and evolution reactions. <i>Catalysis Communications</i> , 2019, 129, 105742.	3.3	12
58	Oxidized carbon/nano-SiC supported platinum nanoparticles as highly stable electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16310-16317.	7.1	11
59	Graphitized Nanodiamond as Highly Efficient Support of Electrocatalysts for Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2014, 161, F185-F191.	2.9	10
60	Comparison study of Fe-based matrix composites reinforced with Ti-coated and Mo-coated SiC particles. <i>Materials Chemistry and Physics</i> , 2018, 204, 154-162.	4.0	10
61	One-pot synthesis of a Mn(MnO)/Mn ₅ C ₂ /carbon nanotube nanocomposite for supercapacitors. <i>RSC Advances</i> , 2014, 4, 64162-64168.	3.6	9
62	Mn ₃ O ₄ nanosheets coated on carbon nanotubes as efficient electrocatalysts for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6529-6537.	7.1	9
63	Synthesis of novel nanocomposites reinforced with 3D graphene/highly-dispersible nanodiamonds nano-hybrids. <i>Ceramics International</i> , 2019, 45, 13158-13163.	4.8	8
64	One-step complexation and self-template strategy to synthesis bimetal Fe/Mn-N doped interconnected hierarchical porous carbon for enhancing catalytic oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 24728-24737.	7.1	8
65	Preparation and Characterization of Zirconia-Coated Nanodiamonds as a Pt Catalyst Support for Methanol Electro-Oxidation. <i>Nanomaterials</i> , 2016, 6, 234.	4.1	7
66	Spark plasma coating of tungsten-coated SiC particles. <i>Powder Technology</i> , 2017, 310, 282-286.	4.2	7
67	Uniform dispersion of nano-Al ₂ O ₃ particles in the 3D graphene network of ternary nanocomposites. <i>Ceramics International</i> , 2019, 45, 3407-3413.	4.8	7
68	Graphene/phenolic resin-based porous carbon composites with improved conductivity prepared via in situ polymerization in graphene hydrogels. <i>Journal of Materials Science</i> , 2019, 54, 2222-2230.	3.7	7
69	Amorphous NiFe(OH)/Ni-Cu-P supported on self-supporting expanded graphite sheet as efficient bifunctional electrocatalysts for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 30387-30395.	7.1	7
70	Manganese coordinated with nitrogen in aligned hierarchical porous carbon for efficient electrocatalytic oxygen reduction reaction in alkaline and acidic medium. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 543-554.	7.1	7
71	Fabrication of bulk nano-SiC via in-situ reaction of core-shell structural SiC@C with Si using high pressure high temperature sintering method. <i>Materials Letters</i> , 2015, 144, 69-73.	2.6	6
72	Investigation of Ti coatings on cubic boron nitride (cBN) grits by discharge treatment in spark plasma sintering system. <i>Advanced Powder Technology</i> , 2017, 28, 2281-2287.	4.1	6

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73	Fe-N-Si tri-doped carbon nanofibers for efficient oxygen reduction reaction in alkaline and acidic media. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28792-28799.	7.1	6
74	B, N Co-doped Nanocarbon Derived In Situ from Nanoboron Carbide as Electrocatalyst for Oxygen Reduction Reaction. <i>ChemNanoMat</i> , 2021, 7, 200-206.	2.8	6
75	Effects of electrolyte concentration and current density on the properties of electro-deposited NiFeW alloy coatings. <i>Bulletin of Materials Science</i> , 2017, 40, 577-582.	1.7	5
76	Amorphous Carbon Film with Self-modified Carbon Nanoparticles Synthesized by Low Temperature Carbonization of Phenolic Resin for Simultaneous Sensing of Dopamine and Uric Acid. <i>Electroanalysis</i> , 2021, 33, 2252-2259.	2.9	4
77	Depression Effects of Al on Oxidation of Diamond During Sintering of Diamond/Borosilicate Glass Composites. <i>International Journal of Applied Ceramic Technology</i> , 2012, 9, 143-148.	2.1	3
78	Simultaneous electrochemical preparation and reduction of graphene with low oxygen content and its electrochemical properties for high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14128-14136.	2.2	3
79	Controllable Fabrication and Characterization of Si-coated Multiwalled Carbon Nanotubes. <i>Integrated Ferroelectrics</i> , 2013, 146, 22-28.	0.7	2
80	Characteristics of bulk liquid undercooling and crystallization behaviors of jet electrodeposition Ni-W-P alloy. <i>Bulletin of Materials Science</i> , 2015, 38, 157-161.	1.7	2
81	Exploring the activation energy of diamond reacting with metals and metal oxides by first-principle calculation. <i>Diamond and Related Materials</i> , 2021, 118, 108522.	3.9	1
82	In Situ TEM Study of Hydrogen-Induced Cracking in Carbide-Free Bainitic Steel. <i>Materials Transactions</i> , 2013, 54, 729-731.	1.2	0
83	Forging of High-Manganese Steel Crossing. <i>Metallurgist</i> , 2018, 62, 181-184.	0.6	0
84	A film electrode composed of micron-diamond embedded in phenolic resin derived amorphous carbon for electroanalysis of dopamine in the presence of uric acid. <i>Journal of Electroanalytical Chemistry</i> , 2022, , 116271.	3.8	0