

Xinping Qiu

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115
papers

6,946
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46
h-index

82
g-index

124
ext. papers

7,779
ext. citations

8.2
avg, IF

5.86
L-index

#	Paper	IF	Citations
115	Nafion/SiO ₂ hybrid membrane for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2007 , 166, 531-536	8.9	352
114	New insight into the discharge process of sulfur cathode by electrochemical impedance spectroscopy. <i>Journal of Power Sources</i> , 2009 , 189, 127-132	8.9	316
113	Mn(II) deposition on anodes and its effects on capacity fade in spinel lithium manganate-carbon systems. <i>Nature Communications</i> , 2013 , 4, 2437	17.4	315
112	A comparative study of Nafion series membranes for vanadium redox flow batteries. <i>Journal of Membrane Science</i> , 2016 , 510, 18-26	9.6	288
111	Self-assembled polyelectrolyte multilayer modified Nafion membrane with suppressed vanadium ion crossover for vanadium redox flow batteries. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1232		236
110	Novel nanocomposite Pt/RuO ₂ x H ₂ O/carbon nanotube catalysts for direct methanol fuel cells. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5315-9	16.4	208
109	Effectively suppressing dissolution of manganese from spinel lithium manganate via a nanoscale surface-doping approach. <i>Nature Communications</i> , 2014 , 5, 5693	17.4	202
108	SPEEK/Graphene oxide nanocomposite membranes with superior cyclability for highly efficient vanadium redox flow battery. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12423-12432	13	198
107	ZrO ₂ -Nanoparticle-Modified Graphite Felt: Bifunctional Effects on Vanadium Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15369-78	9.5	185
106	Nafion/organic silica modified TiO ₂ composite membrane for vanadium redox flow battery via in situ sol-gel reactions. <i>Journal of Membrane Science</i> , 2009 , 341, 149-154	9.6	178
105	Influences of permeation of vanadium ions through PVDF-g-PSSA membranes on performances of vanadium redox flow batteries. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20310-4	3.4	157
104	Nafion/organically modified silicate hybrids membrane for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2009 , 189, 1240-1246	8.9	152
103	PVDF/PEO blends based microporous polymer electrolyte: Effect of PEO on pore configurations and ionic conductivity. <i>Journal of Power Sources</i> , 2006 , 157, 501-506	8.9	150
102	Properties investigation of sulfonated poly(ether ether ketone)/polyacrylonitrile acid-base blend membrane for vanadium redox flow battery application. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18885-93	9.5	137
101	High Volumetric Capacity of Hollow Structured SnO@Si Nanospheres for Lithium-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 3959-3964	11.5	131
100	Electrochemical oxidation of ethanol on Pt/RuO ₂ /C catalyst. <i>Electrochemistry Communications</i> , 2005 , 7, 1087-1090	5.1	131
99	Effect of degree of sulfonation and casting solvent on sulfonated poly(ether ether ketone) membrane for vanadium redox flow battery. <i>Journal of Power Sources</i> , 2015 , 285, 195-204	8.9	130

98	Insights into the Impact of the Nafion Membrane Pretreatment Process on Vanadium Flow Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12228-38	9.5	125
97	Monodispersed hard carbon spherules as a catalyst support for the electrooxidation of methanol. <i>Carbon</i> , 2005 , 43, 11-16	10.4	120
96	Hydrogen from steam reforming of ethanol in low and middle temperature range for fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 1075-1081	6.7	112
95	Structural designing of Pt-CeO ₂ /CNTs for methanol electro-oxidation. <i>Journal of Power Sources</i> , 2007 , 164, 555-560	8.9	109
94	Toxicity, a serious concern of thermal runaway from commercial Li-ion battery. <i>Nano Energy</i> , 2016 , 27, 313-319	17.1	103
93	CeO ₂ decorated graphite felt as a high-performance electrode for vanadium redox flow batteries. <i>RSC Advances</i> , 2014 , 4, 61912-61918	3.7	102
92	Sulfonated poly(ether ether ketone)/mesoporous silica hybrid membrane for high performance vanadium redox flow battery. <i>Journal of Power Sources</i> , 2014 , 257, 221-229	8.9	102
91	Synthesis and high rate properties of nanoparticled lithium cobalt oxides as the cathode material for lithium-ion battery. <i>Electrochemistry Communications</i> , 2002 , 4, 488-491	5.1	88
90	Effect of heat treatment on the performance of TiO ₂ -Pt/CNT catalysts for methanol electro-oxidation. <i>Electrochimica Acta</i> , 2008 , 53, 3708-3713	6.7	85
89	Preparation and characterization of sulfonated poly(ether ether ketone)/poly(vinylidene fluoride) blend membrane for vanadium redox flow battery application. <i>Journal of Power Sources</i> , 2013 , 237, 132-140	8.9	81
88	Holey-engineered electrodes for advanced vanadium flow batteries. <i>Nano Energy</i> , 2018 , 43, 55-62	17.1	81
87	Electrochemical characterization of Pt-CeO ₂ /C and Pt-CexZr _{1-x} O ₂ /C catalysts for ethanol electro-oxidation. <i>Applied Catalysis B: Environmental</i> , 2007 , 73, 144-149	21.8	79
86	Ethanol electro-oxidation on catalysts with TiO ₂ coated carbon nanotubes as support. <i>Electrochemistry Communications</i> , 2007 , 9, 1416-1421	5.1	76
85	Synthesis of hydrous ruthenium oxide supported platinum catalysts for direct methanol fuel cells. <i>Electrochemistry Communications</i> , 2005 , 7, 593-596	5.1	76
84	Composite polymer electrolyte doped with mesoporous silica SBA-15 for lithium polymer battery. <i>Solid State Ionics</i> , 2005 , 176, 1249-1260	3.3	76
83	Enhanced electrochemical properties of PEO-based composite polymer electrolyte with shape-selective molecular sieves. <i>Journal of Power Sources</i> , 2006 , 156, 581-588	8.9	72
82	Ternary Platinum-Copper-Nickel Nanoparticles Anchored to Hierarchical Carbon Supports as Free-Standing Hydrogen Evolution Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3464-72	9.5	67
81	Promotion of carbon nanotube-supported Pt catalyst for methanol and ethanol electro-oxidation by ZrO ₂ in acidic media. <i>Applied Catalysis A: General</i> , 2009 , 364, 1-7	5.1	63

80	TiO ₂ nanotubes promoting Pt/C catalysts for ethanol electro-oxidation in acidic media. <i>Journal of Power Sources</i> , 2007 , 170, 50-54	8.9	62
79	ESR and vibrational spectroscopy study on poly(vinylidene fluoride) membranes with alkaline treatment. <i>Journal of Power Sources</i> , 2006 , 153, 234-238	8.9	61
78	Facile approach to enhance the Pt utilization and CO-tolerance of Pt/C catalysts by physically mixing with transition-metal oxide nanoparticles. <i>Chemical Communications</i> , 2007 , 1656-8	5.8	60
77	Influence of metal oxides on Pt catalysts for methanol electrooxidation using electrochemical impedance spectroscopy. <i>Journal of Power Sources</i> , 2009 , 188, 8-13	8.9	58
76	Characterization of sulfonated poly(ether ether ketone)/poly(vinylidene fluoride-co-hexafluoropropylene) composite membrane for vanadium redox flow battery application. <i>Journal of Power Sources</i> , 2014 , 272, 427-435	8.9	55
75	PVDF-g-PSSA and Al ₂ O ₃ composite proton exchange membranes. <i>Journal of Power Sources</i> , 2006 , 161, 54-60	8.9	53
74	Inhibition of transition metals dissolution in cobalt-free cathode with ultrathin robust interphase in concentrated electrolyte. <i>Nature Communications</i> , 2020 , 11, 3629	17.4	52
73	The benefits and limitations of electrolyte mixing in vanadium flow batteries. <i>Applied Energy</i> , 2017 , 204, 373-381	10.7	51
72	Enhanced electrochemical properties of poly(ethylene oxide)-based composite polymer electrolyte with ordered mesoporous materials for lithium polymer battery. <i>Microporous and Mesoporous Materials</i> , 2006 , 88, 1-7	5.3	49
71	The Microstructure and Character of the PVDF-g-PSSA Membrane Prepared by Solution Grafting. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A917	3.9	48
70	Reduction of capacity decay in vanadium flow batteries by an electrolyte-reflow method. <i>Journal of Power Sources</i> , 2017 , 338, 17-25	8.9	46
69	Polysulfides Capture-Copper Additive for Long Cycle Life Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30248-30255	9.5	45
68	State of charge monitoring for vanadium redox flow batteries by the transmission spectra of V(IV)/V(V) electrolytes. <i>Journal of Applied Electrochemistry</i> , 2012 , 42, 1025-1031	2.6	44
67	Nanocomposite polymer electrolyte comprising PEO/LiClO ₄ and solid super acid: effect of sulphated-zirconia on the crystallization kinetics of PEO. <i>Polymer</i> , 2005 , 46, 5702-5706	3.9	44
66	A nanocomposite proton exchange membrane based on PVDF, poly(2-acrylamido-2-methyl propylene sulfonic acid), and nano-Al ₂ O ₃ for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2006 , 159, 894-899	8.9	43
65	Role of structural H ₂ O in TiO ₂ nanotubes in enhancing Pt/C direct ethanol fuel cell anode electro-catalysts. <i>Journal of Power Sources</i> , 2008 , 178, 97-102	8.9	42
64	FeP/C Composites as an Anode Material for K-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22364-22370	9.5	41
63	A new supported catalyst for methanol oxidation prepared by a reverse micelles method. <i>Electrochemistry Communications</i> , 2002 , 4, 550-553	5.1	41

62	Preparation and characterization of tin-based three-dimensional cellular anode for lithium ion battery. <i>Journal of Power Sources</i> , 2007 , 166, 503-508	8.9	40
61	Promoting the current for methanol electro-oxidation by mixing Pt-based catalysts with CeO ₂ nanoparticles. <i>Journal of Power Sources</i> , 2007 , 170, 297-302	8.9	40
60	Lithiation Behavior of Coaxial Hollow Nanocables of Carbon-Silicon Composite. <i>ACS Nano</i> , 2019 , 13, 2274-2280	4.2	40
59	Broad temperature adaptability of vanadium redox flow battery-Part 3: The effects of total vanadium concentration and sulfuric acid concentration. <i>Electrochimica Acta</i> , 2018 , 259, 11-19	6.7	39
58	Amperometric glucose sensor based on enzyme-modified boron-doped diamond electrode by cross-linking method. <i>Sensors and Actuators B: Chemical</i> , 2004 , 99, 499-504	8.5	39
57	Hollow Structured Silicon Anodes with Stabilized Solid Electrolyte Interphase Film for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23501-6	9.5	38
56	High performance lithium cobalt oxides prepared in molten KCl for rechargeable lithium-ion batteries. <i>Electrochemistry Communications</i> , 2004 , 6, 505-509	5.1	37
55	Analysis of high rate performance of nanoparticled lithium cobalt oxides prepared in molten KNO ₃ for rechargeable lithium-ion batteries. <i>Electrochemistry Communications</i> , 2004 , 6, 789-794	5.1	37
54	Improve First-Cycle Efficiency and Rate Performance of Layered-Layered Li _{1.2} Mn _{0.6} Ni _{0.2} O ₂ Using Oxygen Stabilizing Dopant. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16040-5	9.5	34
53	A facile approach to fabricate free-standing hydrogen evolution electrodes: riveting tungsten carbide nanocrystals to graphite felt fabrics by carbon nanosheets. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5817-5822	13	34
52	A new proton conducting membrane based on copolymer of methyl methacrylate and 2-acrylamido-2-methyl-1-propanesulfonic acid for direct methanol fuel cells. <i>Electrochimica Acta</i> , 2007 , 52, 6956-6961	6.7	32
51	Alcohol electro-oxidation on platinum/beria/graphene nanosheet in alkaline solutions. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 20709-20719	6.7	30
50	In situ mapping of activity distribution and oxygen evolution reaction in vanadium flow batteries. <i>Nature Communications</i> , 2019 , 10, 5286	17.4	29
49	Design and preparation of highly active carbon nanotube-supported sulfated TiO ₂ and platinum catalysts for methanol electrooxidation. <i>Journal of Power Sources</i> , 2010 , 195, 1610-1614	8.9	28
48	Novel Nanocomposite Pt/RuO ₂ ·x H ₂ O/Carbon Nanotube Catalysts for Direct Methanol Fuel Cells. <i>Angewandte Chemie</i> , 2006 , 118, 5441-5445	3.6	26
47	A Well-Defined Silicon Nanocone-Carbon Structure for Demonstrating Exclusive Influences of Carbon Coating on Silicon Anode of Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2806-2814	9.5	24
46	Confined Solid Electrolyte Interphase Growth Space with Solid Polymer Electrolyte in Hollow Structured Silicon Anode for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13247-13254	9.5	22
45	Hierarchical Mesoporous Iron Fluoride with Superior Rate Performance for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32869-32874	9.5	22

44	Improving coulombic efficiency by confinement of solid electrolyte interphase film in pores of silicon/carbon composite. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14075	13	22
43	Tuning the Mn Deposition on the Anode to Improve the Cycle Performance of the Mn-Based Lithium Ion Battery. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500856	4.6	22
42	Size-effect on the activity of anodic catalysts in alcohol and CO electrooxidation. <i>Journal of Power Sources</i> , 2008 , 184, 353-360	8.9	21
41	N-doped graphene-based copper nanocomposite with ultralow electrical resistivity and high thermal conductivity. <i>Scientific Reports</i> , 2018 , 8, 9248	4.9	19
40	Rapid detection of the positive side reactions in vanadium flow batteries. <i>Applied Energy</i> , 2017 , 185, 452-462	10.7	19
39	The effects of composition and thermal treatment on the magnetic properties of Fe _{100-x} Co _x nanowire arrays based on AAO templates. <i>Journal of Materials Science</i> , 2006 , 41, 2211-2218	4.3	19
38	Hierarchical Mesoporous Iron Fluoride and Reduced Graphene Oxide Nanocomposite as Cathode Materials for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17538-17546	9.5	18
37	Insights into the endurance promotion of PtSn/CNT catalysts by thermal annealing for ethanol electro-oxidation. <i>Electrochimica Acta</i> , 2016 , 213, 578-586	6.7	18
36	Study on the co-catalytic effect of titanate nanotubes on Pt-based catalysts in direct alcohol fuel cells. <i>Applied Catalysis B: Environmental</i> , 2010 , 97, 204-212	21.8	17
35	Steam reforming of ethanol for hydrogen production over NiO/ZnO/ZrO ₂ catalysts. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1008-1008	6.7	15
34	Bilayer Designed Hydrocarbon Membranes for All-Climate Vanadium Flow Batteries To Shield Catholyte Degradation and Mitigate Electrolyte Crossover. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13285-13294	9.5	14
33	Conductivities and transport properties of microporous molecular sieves doped composite polymer electrolyte used for lithium polymer battery. <i>New Journal of Chemistry</i> , 2005 , 29, 1454	3.6	14
32	High capacity lithium-manganese-nickel-oxide composite cathodes with low irreversible capacity loss and good cycle life for lithium ion batteries. <i>Science China Chemistry</i> , 2016 , 59, 1479-1485	7.9	13
31	A Cobalt-Free Li(Li Ni Fe Mn)O Cathode for Lithium-Ion Batteries with Anionic Redox Reactions. <i>ChemSusChem</i> , 2019 , 12, 1162-1168	8.3	13
30	Hard carbon derived from rice husk as anode material for high performance potassium-ion batteries. <i>Solid State Ionics</i> , 2020 , 351, 115319	3.3	12
29	Electrochemical characters and structure changes of electrochemically treated Pt nanoparticles. <i>Electrochemistry Communications</i> , 2010 , 12, 14-17	5.1	11
28	Mechanism of capacity fading caused by Mn (II) deposition on anodes for spinel lithium manganese oxide cell. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017 , 32, 1-10	1	9
27	Mesocarbon microbeads supported PtSn catalysts for electrochemical oxidation of ethanol. <i>Journal of Materials Science</i> , 2007 , 42, 4508-4512	4.3	9

26	Thermal behaviors of Ni-MH batteries using a novel impedance spectroscopy. <i>Journal of Power Sources</i> , 2008 , 182, 377-382	8.9	9
25	Preparation of PtTeO[sub 2]CNTs Through Spontaneous Adsorbing Pt Nanoparticles onto CNTs Aided by CeO[sub 2]. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, B114		9
24	Structural Transformation and Cycling Improvement of Nanosized Flower-like MnO ₂ in a Sodium Battery. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5050-5056	6.1	8
23	A Cobalt-Free Li(Li Ni Fe Mn)O Cathode with More Oxygen-Involving Charge Compensation for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019 , 12, 2471-2479	8.3	8
22	Study on solid electrolyte interphase excessive growth caused by Mn (II) deposition on silicon anode. <i>Electrochimica Acta</i> , 2018 , 282, 602-608	6.7	5
21	Sodium storage performance and mechanism of Ag ₂ S nanospheres as electrode material for sodium-ion batteries. <i>Solid State Ionics</i> , 2019 , 343, 115071	3.3	5
20	Substituents and the induced partial charge effects on cobalt porphyrins catalytic oxygen reduction reactions in acidic medium. <i>Journal of Colloid and Interface Science</i> , 2021 , 597, 269-277	9.3	5
19	Silicon dioxide molecular sieve with mono-layer carbon deposited in the channels and carbon nanotubes on the outside for lithium-sulfur batteries. <i>RSC Advances</i> , 2016 , 6, 60550-60555	3.7	4
18	Quantification on Growing Mass of Solid Electrolyte Interphase and Deposited Mn(II) on the Silicon Anode of LiMnO Full Lithium-Ion Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27839-27845	9.5	4
17	Enhance performances of Co-free Li-rich cathode by eutectic melting salt treatment. <i>Nano Energy</i> , 2022 , 92, 106760	17.1	4
16	Quantification of lithium dendrite and solid electrolyte interphase (SEI) in lithium-ion batteries. <i>Journal of Power Sources</i> , 2022 , 529, 231219	8.9	4
15	Na/K Diffusion in FeP as an Anode Material for Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6495-6501	3.8	3
14	Displacement reaction-based Ag ₂ S electrode for lithium batteries with high volumetric energy density. <i>Solid State Ionics</i> , 2019 , 340, 115015	3.3	3
13	Development of composite anode electrocatalyst for direct methanol fuel cells. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1779-1787	2.6	3
12	A comparison of iron phthalocyanine and cobalt porphyrin on the electrochemical catalysis in Ni-MH battery. <i>Science Bulletin</i> , 2007 , 52, 71-77		3
11	New anhydrous proton exchange membrane for intermediate temperature proton exchange membrane fuel cells. <i>ChemPhysChem</i> , 2011 , 12, 1196-201	3.2	2
10	Interfacial charge transfer mechanism of oxygen reduction reaction in alkali media: Effects of molecular charge states and triphenylamine substituent on cobalt porphyrin electrocatalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 629, 127435	5.1	2
9	Stabilized cobalt-free lithium-rich cathode materials with an artificial lithium fluoride coating. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 917-924	3.1	2

8	A silicon-based micro direct methanol fuel cell stack with compact structure and PDMS packaging 2007,		1
7	A micro direct methanol fuel cell using PDMS assembly technology		1
6	Structural transformation and electrochemical properties of a nanosized flower-like R-MnO cathode in a sodium battery.. <i>Physical Chemistry Chemical Physics</i> , 2021 , 24, 551-559	3.6	○
5	Cr-Doped FeCrFD.33HO Nanomaterials as Cathode Materials for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48653-48660	9.5	○
4	Characterizing the Onset Potential Distribution of Pt/C Catalyst Deposition by a Total Internal Reflection Imaging Method. <i>Small</i> , 2021 , 17, e2102407	11	○
3	Effects of Mn(II) on nano silicon@polyaniline electrodes in both half and full cells. <i>International Journal of Energy Research</i> , 2021 , 45, 4357-4369	4.5	○
2	Low-cost and high-rate porous carbon anode material for potassium-ion batteries. <i>Solid State Ionics</i> , 2022 , 381, 115944	3.3	○
1	Research on catalysis of sodium-metallochlorophylls in Ni/MH battery. <i>Science Bulletin</i> , 2009 , 54, 3005-3013		