

Xinping Qiu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/139561/publications.pdf>

Version: 2024-02-01

121
papers

8,808
citations

36271

51
h-index

42364

92
g-index

124
all docs

124
docs citations

124
times ranked

8101
citing authors

#	ARTICLE	IF	CITATIONS
1	Nafion/SiO ₂ hybrid membrane for vanadium redox flow battery. Journal of Power Sources, 2007, 166, 531-536.	4.0	416
2	Mn(II) deposition on anodes and its effects on capacity fade in spinel lithium manganate-carbon systems. Nature Communications, 2013, 4, 2437.	5.8	409
3	A comparative study of Nafion series membranes for vanadium redox flow batteries. Journal of Membrane Science, 2016, 510, 18-26.	4.1	384
4	New insight into the discharge process of sulfur cathode by electrochemical impedance spectroscopy. Journal of Power Sources, 2009, 189, 127-132.	4.0	345
5	Self-assembled polyelectrolyte multilayer modified Nafion membrane with suppressed vanadium ion crossover for vanadium redox flow batteries. Journal of Materials Chemistry, 2008, 18, 1232.	6.7	277
6	Effectively suppressing dissolution of manganese from spinel lithium manganate via a nanoscale surface-doping approach. Nature Communications, 2014, 5, 5693.	5.8	255
7	SPEEK/Graphene oxide nanocomposite membranes with superior cyclability for highly efficient vanadium redox flow battery. Journal of Materials Chemistry A, 2014, 2, 12423-12432.	5.2	244
8	ZrO ₂ -Nanoparticle-Modified Graphite Felt: Bifunctional Effects on Vanadium Flow Batteries. ACS Applied Materials & Interfaces, 2016, 8, 15369-15378.	4.0	234
9	Novel Nanocomposite Pt/RuO ₂ -H ₂ O/Carbon Nanotube Catalysts for Direct Methanol Fuel Cells. Angewandte Chemie - International Edition, 2006, 45, 5315-5319.	7.2	220
10	Nafion/organic silica modified TiO ₂ composite membrane for vanadium redox flow battery via in situ sol-gel reactions. Journal of Membrane Science, 2009, 341, 149-154.	4.1	206
11	Toxicity, a serious concern of thermal runaway from commercial Li-ion battery. Nano Energy, 2016, 27, 313-319.	8.2	186
12	PVDF-PEO blends based microporous polymer electrolyte: Effect of PEO on pore configurations and ionic conductivity. Journal of Power Sources, 2006, 157, 501-506.	4.0	171
13	Nafion/organically modified silicate hybrids membrane for vanadium redox flow battery. Journal of Power Sources, 2009, 189, 1240-1246.	4.0	170
14	Effect of degree of sulfonation and casting solvent on sulfonated poly(ether ether ketone) membrane for vanadium redox flow battery. Journal of Power Sources, 2015, 285, 195-204.	4.0	167
15	Influences of Permeation of Vanadium Ions through PVDF-g-PSSA Membranes on Performances of Vanadium Redox Flow Batteries. Journal of Physical Chemistry B, 2005, 109, 20310-20314.	1.2	166
16	Insights into the Impact of the Nafion Membrane Pretreatment Process on Vanadium Flow Battery Performance. ACS Applied Materials & Interfaces, 2016, 8, 12228-12238.	4.0	166
17	Properties Investigation of Sulfonated Poly(ether ether ketone)/Polyacrylonitrile Acid-Base Blend Membrane for Vanadium Redox Flow Battery Application. ACS Applied Materials & Interfaces, 2014, 6, 18885-18893.	4.0	162
18	High Volumetric Capacity of Hollow Structured SnO ₂ @Si Nanospheres for Lithium-Ion Batteries. Nano Letters, 2017, 17, 3959-3964.	4.5	161

#	ARTICLE	IF	CITATIONS
19	Electrochemical oxidation of ethanol on Pt@ZrO ₂ /C catalyst. <i>Electrochemistry Communications</i> , 2005, 7, 1087-1090.	2.3	150
20	Inhibition of transition metals dissolution in cobalt-free cathode with ultrathin robust interphase in concentrated electrolyte. <i>Nature Communications</i> , 2020, 11, 3629.	5.8	137
21	Monodispersed hard carbon spherules as a catalyst support for the electrooxidation of methanol. <i>Carbon</i> , 2005, 43, 11-16.	5.4	132
22	CeO ₂ decorated graphite felt as a high-performance electrode for vanadium redox flow batteries. <i>RSC Advances</i> , 2014, 4, 61912-61918.	1.7	128
23	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.	3.8	127
24	Structural designing of Pt-CeO ₂ /CNTs for methanol electro-oxidation. <i>Journal of Power Sources</i> , 2007, 164, 555-560.	4.0	127
25	Holey-engineered electrodes for advanced vanadium flow batteries. <i>Nano Energy</i> , 2018, 43, 55-62.	8.2	127
26	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.	4.0	113
27	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.	4.0	94
28	Ternary Platinum@Copper@Nickel Nanoparticles Anchored to Hierarchical Carbon Supports as Free-Standing Hydrogen Evolution Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3464-3472.	4.0	93
29	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.	2.3	91
30	Composite polymer electrolyte doped with mesoporous silica SBA-15 for lithium polymer battery. <i>Solid State Ionics</i> , 2005, 176, 1249-1260.	1.3	91
31	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.	2.6	91
32	Electrochemical characterization of Pt-CeO ₂ /C and Pt-CexZr1-xO ₂ /C catalysts for ethanol electro-oxidation. <i>Applied Catalysis B: Environmental</i> , 2007, 73, 144-149.	10.8	89
33	Ethanol electro-oxidation on catalysts with TiO ₂ coated carbon nanotubes as support. <i>Electrochemistry Communications</i> , 2007, 9, 1416-1421.	2.3	87
34	ESR and vibrational spectroscopy study on poly(vinylidene fluoride) membranes with alkaline treatment. <i>Journal of Power Sources</i> , 2006, 153, 234-238.	4.0	84
35	Enhanced electrochemical properties of PEO-based composite polymer electrolyte with shape-selective molecular sieves. <i>Journal of Power Sources</i> , 2006, 156, 581-588.	4.0	84
36	Synthesis of hydrous ruthenium oxide supported platinum catalysts for direct methanol fuel cells. <i>Electrochemistry Communications</i> , 2005, 7, 593-596.	2.3	79

#	ARTICLE	IF	CITATIONS
37	The benefits and limitations of electrolyte mixing in vanadium flow batteries. <i>Applied Energy</i> , 2017, 204, 373-381.	5.1	76
38	Reduction of capacity decay in vanadium flow batteries by an electrolyte-reflow method. <i>Journal of Power Sources</i> , 2017, 338, 17-25.	4.0	73
39	TiO ₂ nanotubes promoting Pt/C catalysts for ethanol electro-oxidation in acidic media. <i>Journal of Power Sources</i> , 2007, 170, 50-54.	4.0	71
40	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.	2.2	71
41	Influence of metal oxides on Pt catalysts for methanol electrooxidation using electrochemical impedance spectroscopy. <i>Journal of Power Sources</i> , 2009, 188, 8-13.	4.0	69
42	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.	2.2	63
43	Characterization of sulfonated poly(ether ether ketone)/poly(vinylidene fluoride) membranes. <i>Journal of Power Sources</i> , 2014, 272, 427-435.	4.0	63
44	PVDF-g-PSSA and Al ₂ O ₃ composite proton exchange membranes. <i>Journal of Power Sources</i> , 2006, 161, 54-60.	4.0	59
45	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.	2.2	56
46	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.	2.6	56
47	Fe/P/C Composites as an Anode Material for K-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22364-22370.	4.0	56
48	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.	1.5	55
49	The Microstructure and Character of the PVDF-g-PSSA Membrane Prepared by Solution Grafting. <i>Journal of the Electrochemical Society</i> , 2003, 150, A917.	1.3	54
50	Polysulfides Capture-Copper Additive for Long Cycle Life Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30248-30255.	4.0	54
51	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.	1.8	53
52	Preparation and characterization of tin-based three-dimensional cellular anode for lithium ion battery. <i>Journal of Power Sources</i> , 2007, 166, 503-508.	4.0	48
53	Lithiation Behavior of Coaxial Hollow Nanocables of Carbon-Silicon Composite. <i>ACS Nano</i> , 2019, 13, 2274-2280.	7.3	47
54	A nanocomposite proton exchange membrane based on PVDF, poly(2-acrylamido-2-methyl propylene) ... 894-899.	4.0	46

#	ARTICLE	IF	CITATIONS
55	Alcohol electro-oxidation on platinum-ceria/graphene nanosheet in alkaline solutions. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20709-20719.	3.8	46
56	Hollow Structured Silicon Anodes with Stabilized Solid Electrolyte Interphase Film for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23501-23506.	4.0	45
57	In situ mapping of activity distribution and oxygen evolution reaction in vanadium flow batteries. <i>Nature Communications</i> , 2019, 10, 5286.	5.8	45
58	A new supported catalyst for methanol oxidation prepared by a reverse micelles method. <i>Electrochemistry Communications</i> , 2002, 4, 550-553.	2.3	43
59	High performance lithium cobalt oxides prepared in molten KCl for rechargeable lithium-ion batteries. <i>Electrochemistry Communications</i> , 2004, 6, 505-509.	2.3	43
60	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.	4.0	43
61	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.	4.0	42
62	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, 16040-16045.	4.0	42
63	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.	4.0	41
64	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.	2.3	41
65	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.	2.6	41
66	Enhance performances of Co-free Li-rich cathode by eutectic melting salt treatment. <i>Nano Energy</i> , 2022, 92, 106760.	8.2	40
67	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.	5.2	39
68	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.	1.9	35
69	N-doped graphene-based copper nanocomposite with ultralow electrical resistivity and high thermal conductivity. <i>Scientific Reports</i> , 2018, 8, 9248.	1.6	32
70	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.	4.0	32
71	Impacts of Dissolved Ni ²⁺ on the Solid Electrolyte Interphase on a Graphite Anode. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	31
72	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.	4.0	30

#	ARTICLE	IF	CITATIONS
73	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.	4.0	30
74	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.	4.0	30
75	A Well-Defined Silicon Nanoconeâ€“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.	4.0	29
76	Hard carbon derived from rice husk as anode material for high performance potassium-ion batteries. <i>Solid State Ionics</i> , 2020, 351, 115319.	1.3	28
77	Insights into the endurance promotion of PtSn/CNT catalysts by thermal annealing for ethanol electro-oxidation. <i>Electrochimica Acta</i> , 2016, 213, 578-586.	2.6	26
78	Hierarchical Mesoporous Iron Fluoride with Superior Rate Performance for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32869-32874.	4.0	26
79	Quantification of lithium dendrite and solid electrolyte interphase (SEI) in lithium-ion batteries. <i>Journal of Power Sources</i> , 2022, 529, 231219.	4.0	26
80	Size-effect on the activity of anodic catalysts in alcohol and CO electrooxidation. <i>Journal of Power Sources</i> , 2008, 184, 353-360.	4.0	25
81	Steam reforming of ethanol for hydrogen production over NiO/ZnO/ZrO ₂ catalysts. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1008-1008.	3.8	25
82	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.	5.2	24
83	Rapid detection of the positive side reactions in vanadium flow batteries. <i>Applied Energy</i> , 2017, 185, 452-462.	5.1	23
84	The effects of composition and thermal treatment on the magnetic properties of Fe _{100-x} Cox nanowire arrays based on AAO templates. <i>Journal of Materials Science</i> , 2006, 41, 2211-2218.	1.7	21
85	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.	1.4	20
86	A Cobaltâ€“Free Li(Li _{0.17} Ni _{0.17} Fe _{0.17} Mn _{0.49})O ₂ Cathode with More Oxygenâ€“Involving Charge Compensation for Lithiumâ€“Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 2471-2479.	3.6	20
87	A Cobaltâ€“Free Li(Li _{0.16} Ni _{0.19} Fe _{0.18} Mn _{0.46})O ₂ Cathode for Lithiumâ€“Ion Batteries with Anionic Redox Reactions. <i>ChemSusChem</i> , 2019, 12, 1162-1168.	3.6	20
88	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.	10.8	18
89	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.	5.0	16
90	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.	4.2	13

#	ARTICLE	IF	CITATIONS
91	Structural Transformation and Cycling Improvement of Nanosized Flower-like Fe_3O_4 in a Sodium Battery. <i>ACS Applied Energy Materials</i> , 2019, 2, 5050-5056.	2.5	13
92	Electrochemical characters and structure changes of electrochemically treated Pt nanoparticles. <i>Electrochemistry Communications</i> , 2010, 12, 14-17.	2.3	11
93	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.	0.4	11
94	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.	2.3	11
95	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.	2.4	11
96	Mesocarbon microbeads supported PtSn catalysts for electrochemical oxidation of ethanol. <i>Journal of Materials Science</i> , 2007, 42, 4508-4512.	1.7	10
97	Thermal behaviors of Ni-MH batteries using a novel impedance spectroscopy. <i>Journal of Power Sources</i> , 2008, 182, 377-382.	4.0	10
98	Sodium storage performance and mechanism of Ag_2S nanospheres as electrode material for sodium-ion batteries. <i>Solid State Ionics</i> , 2019, 343, 115071.	1.3	10
99	Preparation of Pt@ CeO_2 CNTs Through Spontaneous Adsorbing Pt Nanoparticles onto CNTs Aided by CeO_2 . <i>Electrochemical and Solid-State Letters</i> , 2007, 10, B114.	2.2	9
100	Study on solid electrolyte interphase excessive growth caused by Mn (II) deposition on silicon anode. <i>Electrochimica Acta</i> , 2018, 282, 602-608.	2.6	9
101	Quantification on Growing Mass of Solid Electrolyte Interphase and Deposited Mn(II) on the Silicon Anode of LiMn_2O_4 Full Lithium-Ion Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27839-27845.	4.0	8
102	Na/K Diffusion in FeP as an Anode Material for Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6495-6501.	1.5	7
103	Displacement reaction-based Ag_2S electrode for lithium batteries with high volumetric energy density. <i>Solid State Ionics</i> , 2019, 340, 115015.	1.3	6
104	Characterizing the Onset Potential Distribution of Pt/C Catalyst Deposition by a Total Internal Reflection Imaging Method. <i>Small</i> , 2021, 17, e2102407.	5.2	6
105	Low-cost and high-rate porous carbon anode material for potassium-ion batteries. <i>Solid State Ionics</i> , 2022, 381, 115944.	1.3	5
106	A micro direct methanol fuel cell using PDMS assembly technology. , 0, , .		4
107	Development of composite anode electrocatalyst for direct methanol fuel cells. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1779-1787.	1.5	4
108	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.	1.7	4

#	ARTICLE	IF	CITATIONS
109	Impacts of Dissolved Ni ²⁺ on the Solid Electrolyte Interphase on a Graphite Anode. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
110	A silicon-based micro direct methanol fuel cell stack with compact structure and PDMS packaging. , 2007, , .		3
111	A comparison of iron phthalocyanine and cobalt porphyrin on the electrochemical catalysis in Ni-MH battery. <i>Science Bulletin</i> , 2007, 52, 71-77.	1.7	3
112	New Anhydrous Proton Exchange Membrane for Intermediate Temperature Proton Exchange Membrane Fuel Cells. <i>ChemPhysChem</i> , 2011, 12, 1196-1201.	1.0	3
113	Cr-Doped Fe _{1-x} Cr _x F ₃ ·0.33H ₂ O Nanomaterials as Cathode Materials for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48653-48660.	4.0	3
114	A silicon-based micro direct methanol fuel cell with microblocks in anode structure. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008, , .	0.0	2
115	Structural transformation and electrochemical properties of a nanosized flower-like R-MnO ₂ cathode in a sodium battery. <i>Physical Chemistry Chemical Physics</i> , 2021, 24, 551-559.	1.3	2
116	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.	2.2	1
117	Research on catalysis of sodium-metallochlorophylls in Ni/MH battery. <i>Science Bulletin</i> , 2009, 54, 3005-3013.	1.7	0
118	A Micro Direct Methanol Fuel Cell Integrated with a Temperature Control System for Extreme Environments. , 2009, , .		0
119	Effects of Cl ⁻ and F ⁻ Adsorption on Methanol Oxidation on Polycrystalline Platinum Electrode. , 2000, , .		0
120	Methanol Permeability and Conductivity of Alkali Ion-doped Nafion Membrane. , 2000, , .		0
121	Innenr¼cktitelbild: Impacts of Dissolved Ni ²⁺ on the Solid Electrolyte Interphase on a Graphite Anode (<i>Angew. Chem.</i> 30/2022). <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0