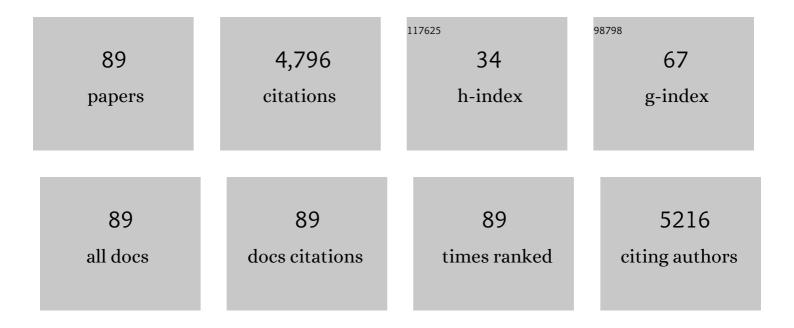
## Xiao-Zi Yuan

List of Publications by Year in descending order

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Χιλο-Ζι ΥΠΛΝ

#	Article	IF	CITATIONS
1	Comparative investigation of the impact of fast charging at low temperature on commercial Li-ion cells. Journal of Power Sources, 2022, 524, 231071.	7.8	17
2	The porous transport layer in proton exchange membrane water electrolysis: perspectives on a complex component. Sustainable Energy and Fuels, 2022, 6, 1824-1853.	4.9	26
3	Lithium-Ion Battery Second Life: Cell Performance Assessment for Stationary Energy Storage Applications. ECS Meeting Abstracts, 2022, MA2022-01, 603-603.	0.0	0
4	Standardized testing framework for quality control of fuel cell bipolar plates. Journal of Power Sources, 2021, 482, 228972.	7.8	20
5	A review of functions, attributes, properties and measurements for the quality control of proton exchange membrane fuel cell components. Journal of Power Sources, 2021, 491, 229540.	7.8	42
6	(Invited) A Functional Analysis of MEA Attributes and Properties for the Quality Control of Polymer Electrolyte Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-02, 1064-1064.	0.0	0
7	Degradation Mechanisms and Mitigation Strategies of Nickel-Rich NMC-Based Lithium-Ion Batteries. Electrochemical Energy Reviews, 2020, 3, 43-80.	25.5	393
8	Oxygen vacancy engineering of yttrium ruthenate pyrochlores as an efficient oxygen catalyst for both proton exchange membrane water electrolyzers and rechargeable zinc-air batteries. Applied Catalysis B: Environmental, 2020, 260, 118176.	20.2	50
9	Study of failure mechanisms of the reversal tolerant fuel cell anode via novel in-situ measurements. International Journal of Hydrogen Energy, 2020, 45, 996-1007.	7.1	19
10	Study of relative humidity on durability of the reversal tolerant proton exchange membrane fuel cell anode using a segmented cell. Journal of Power Sources, 2020, 449, 227542.	7.8	24
11	Development of a 3-in-1 device to simultaneously measure properties of gas diffusion layer for the quality control of proton exchange membrane fuel cell components. Journal of Power Sources, 2020, 477, 229009.	7.8	5
12	A Novel Approach to Fabricate Membrane Electrode Assembly by Directly Coating the Nafion Ionomer on Catalyst Layers for Proton-Exchange Membrane Fuel Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 9803-9812.	6.7	37
13	Effects of Fast Charging at Low Temperature on a High Energy Li-Ion Battery. Journal of the Electrochemical Society, 2020, 167, 140521.	2.9	39
14	NaCl template-directed approach to ultrathin lamellar molybdenum phosphide-carbon hybrids for efficient hydrogen production. Journal of Power Sources, 2019, 438, 227048.	7.8	20
15	Tungsten Carbide Encapsulated in Grape-Like N-Doped Carbon Nanospheres: One-Step Facile Synthesis for Low-Cost and Highly Active Electrocatalysts in Proton Exchange Membrane Water Electrolyzers. ACS Applied Materials & Interfaces, 2019, 11, 25123-25132.	8.0	37
16	A review of allâ€vanadium redox flow battery durability: Degradation mechanisms and mitigation strategies. International Journal of Energy Research, 2019, 43, 6599.	4.5	70
17	Electrochemical Nitrogen Reduction Reaction on Ruthenium. ACS Energy Letters, 2019, 4, 1336-1341.	17.4	187
18	Effects of Membrane Additives on PEMFC Conditioning. ChemistrySelect, 2019, 4, 12649-12655.	1.5	7

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19	Highly active and stable ruthenate pyrochlore for enhanced oxygen evolution reaction in acidic medium electrolysis. Applied Catalysis B: Environmental, 2019, 244, 494-501.	20.2	109
20	Chromium Oxynitride Electrocatalysts for Electrochemical Synthesis of Ammonia Under Ambient Conditions. Small Methods, 2019, 3, 1800324.	8.6	41
21	Measurements of GDL Properties for Quality Control in Fuel Cell Mass Production Line. World Electric Vehicle Journal, 2016, 8, 422-430.	3.0	6
22	High Rate Performance of Surface Metalized Spherical Nickel Hydroxide via in situ Chemical Reduction. Electrochimica Acta, 2016, 207, 28-36.	5.2	3
23	FeS anchored reduced graphene oxide nanosheets as advanced anode material with superior high-rate performance for alkaline secondary batteries. Journal of Power Sources, 2016, 327, 187-195.	7.8	75
24	Glucose-Assisted Synthesis of Highly Dispersed LiMnPO 4 Nanoparticles at a Low Temperature for Lithium Ion Batteries. Electrochimica Acta, 2016, 189, 205-214.	5.2	28
25	Hexagonal-layered Na0.7MnO2.05 via solvothermal synthesis as an electrode material for aqueous Na-ion supercapacitors. Materials Chemistry and Physics, 2016, 171, 137-144.	4.0	20
26	Influence of annealing temperature on the structure and electrochemical performance of the Fe 3 O 4 anode material for alkaline secondary batteries. Electrochimica Acta, 2015, 178, 34-44.	5.2	32
27	A comparative study of structural and electrochemical properties of high-density aluminum substituted α-nickel hydroxide containing different interlayer anions. Journal of Power Sources, 2015, 282, 158-168.	7.8	47
28	Enhanced electrochemical performance of high-density Al-substituted α-nickel hydroxide by a novel anion exchange method using NaCl solution. International Journal of Hydrogen Energy, 2015, 40, 1852-1858.	7.1	15
29	Synthesis and electrochemical properties of high performance polyhedron sphere like lithium manganese oxide for lithium ion batteries. Journal of Alloys and Compounds, 2015, 632, 222-228.	5.5	25
30	Glucose assisted synthesis of hollow spindle LiMnPO 4 /C nanocomposites for high performance Li-ion batteries. Electrochimica Acta, 2015, 178, 420-428.	5.2	24
31	Carbon gel assisted low temperature liquid-phase synthesis of C-LiFePO4/graphene layers with high rate and cycle performances. Journal of Power Sources, 2015, 295, 131-138.	7.8	21
32	FeS/C composite as high-performance anode material for alkaline nickel–iron rechargeable batteries. Journal of Power Sources, 2015, 291, 29-39.	7.8	68
33	Synthesis of CoO/Reduced Graphene Oxide Composite as an Alternative Additive for the Nickel Electrode in Alkaline Secondary Batteries. Electrochimica Acta, 2015, 180, 373-381.	5.2	15
34	Facile and Nonradiation Pretreated Membrane as a High Conductive Separator for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 20184-20189.	8.0	39
35	Facile synthesis of high tap density ZnO microspheres as advanced anode material for alkaline nickel-zinc rechargeable batteries. Electrochimica Acta, 2015, 182, 173-182.	5.2	29
36	Influence of acidity and auxiliary electrode reaction on the oxidation of epinephrine on the pre-anodized carbon paste electrode. Electrochimica Acta, 2015, 186, 209-215.	5.2	11

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37	Oxygen Reduction Reaction in 1-Butyl-1-methyl-pyrrolidinium Bis(trifluoromethanesulfonyl)imide: Addition of Water as a Proton Species. Journal of the Electrochemical Society, 2014, 161, A451-A457.	2.9	26
38	Evaluation of an Early Stage Air Cathode for Zinc Air Battery Applications. ECS Transactions, 2014, 59, 115-125.	0.5	1
39	Facile synthesis of LiAl0.1Mn1.9O4 as cathode material for lithium ion batteries: towards rate and cycling capabilities at an elevated temperature. Electrochimica Acta, 2014, 134, 338-346.	5.2	40
40	Effects of Î <sup>3</sup> -CoOOH coating on the high-temperature and high-rate performances of spherical nickel hydroxide electrodes. International Journal of Hydrogen Energy, 2014, 39, 3895-3903.	7.1	18
41	Effect of Water and Dimethyl Sulfoxide on Oxygen Reduction Reaction in Bis(trifluoromethanesulfonyl)imide-based Ionic Liquids. Journal of the Electrochemical Society, 2014, 161, A458-A466.	2.9	21
42	Synthesis, characterization and electrochemical performance of high-density aluminum substituted α-nickel hydroxide cathode material for nickel-based rechargeable batteries. Journal of Power Sources, 2014, 270, 121-130.	7.8	46
43	Facile fabrication of LiMn2O4 microspheres from multi-shell MnO2 for high-performance lithium-ion batteries. Materials Letters, 2014, 135, 75-78.	2.6	28
44	Calcium metaborate as a cathode additive to improve the high-temperature properties of nickel hydroxide electrodes for nickel–metal hydride batteries. Journal of Power Sources, 2014, 263, 110-117.	7.8	15
45	Electrochemical performance of solid sphere spinel LiMn2O4 with high tap density synthesized by porous spherical Mn3O4. Electrochimica Acta, 2014, 123, 254-259.	5.2	38
46	Effects of different electrolytes containing Na2WO4 on the electrochemical performance of nickel hydroxide electrodes for nickel–metal hydride batteries. International Journal of Hydrogen Energy, 2014, 39, 3412-3422.	7.1	14
47	Atomic force microscopy studies of conductive nanostructures in solid polymer electrolytes. Electrochimica Acta, 2013, 110, 292-305.	5.2	31
48	Sodium tungstate as electrolyte additive to improve high-temperature performance of nickel–metal hydride batteries. International Journal of Hydrogen Energy, 2013, 38, 5133-5138.	7.1	14
49	Synthesis and properties of LiMn2O4 from hydrazine hydrate reduced electrolytic manganese dioxide. Solid State Ionics, 2013, 237, 34-39.	2.7	13
50	Enhancement of the high-temperature performance of advanced nickel–metal hydride batteries with NaOH electrolyte containing NaBO2. International Journal of Hydrogen Energy, 2013, 38, 10616-10624.	7.1	16
51	Effects of precursor treatment on the structure and electrochemical properties of spinel LiMn2O4 cathode. Journal of Alloys and Compounds, 2013, 566, 16-21.	5.5	20
52	Synthesis of high-purity LiMn2O4 with enhanced electrical properties from electrolytic manganese dioxide treated by sulfuric acid-assisted hydrothermal method. Journal of Solid State Electrochemistry, 2013, 17, 2849-2856.	2.5	15
53	Microscopic Investigation of Platinum Deposition in PEMFC Cross-Sections Using AFM and SEM. Journal of the Electrochemical Society, 2013, 160, F687-F697.	2.9	23
54	Molecular Simulation of Gas Transport in Hydrated Nafion Membranes: Influence of Aqueous Nanostructure. Journal of Physical Chemistry C, 2012, 116, 17424-17430.	3.1	24

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55	Impacts of operating conditions on the effects of chloride contamination on PEM fuel cell performance and durability. Journal of Power Sources, 2012, 218, 375-382.	7.8	30
56	Diagnosis of contamination introduced by ammonia at the cathode in a polymer electrolyte membrane fuel cell. International Journal of Hydrogen Energy, 2012, 37, 12464-12473.	7.1	50
57	Current mapping of a proton exchange membrane fuel cell with a segmented current collector during the gas starvation and shutdown processes. International Journal of Hydrogen Energy, 2012, 37, 15288-15300.	7.1	54
58	Accelerated durability testing via reactants relative humidity cycling on PEM fuel cells. Applied Energy, 2012, 93, 90-97.	10.1	90
59	Effect of open circuit voltage on degradation of a short proton exchange membrane fuel cell stack with bilayer membrane configurations. Journal of Power Sources, 2012, 205, 290-300.	7.8	27
60	Accelerated conditioning for a proton exchange membrane fuel cell. Journal of Power Sources, 2012, 205, 340-344.	7.8	34
61	A review on performance degradation of proton exchange membrane fuel cells during startup and shutdown processes: Causes, consequences, and mitigation strategies. Journal of Power Sources, 2012, 205, 10-23.	7.8	249
62	Degradation of a PEM fuel cell stack with Nafion® membranes of different thicknesses. Part II: Ex situ diagnosis. Journal of Power Sources, 2012, 205, 324-334.	7.8	74
63	Membrane electrode assembly degradation under idle conditions via unsymmetrical reactant relative humidity cycling. Journal of Power Sources, 2012, 207, 101-110.	7.8	19
64	Molecular Simulation of Gas Adsorption, Diffusion, and Permeation in Hydrated Nafion Membranes. Journal of Physical Chemistry B, 2011, 115, 11352-11358.	2.6	63
65	A review of accelerated conditioning for a polymer electrolyte membrane fuel cell. Journal of Power Sources, 2011, 196, 9097-9106.	7.8	83
66	A review of polymer electrolyte membrane fuel cell durability test protocols. Journal of Power Sources, 2011, 196, 9107-9116.	7.8	277
67	Effects of different Ni(OH)2 precursors on the structure and electrochemical properties of NiOOH. International Journal of Hydrogen Energy, 2011, 36, 10057-10064.	7.1	16
68	Diagnosis of MEA degradation under accelerated relative humidity cycling. Journal of Power Sources, 2011, 196, 5045-5052.	7.8	64
69	Synthesis of LiNi1/3Co1/3Al1/3O2 cathode material with eutectic molten salt LiOH-LiNO3. Powder Technology, 2011, 207, 396-400.	4.2	20
70	Regulation of the discharge reservoir of negative electrodes in Ni–MH batteries by using Ni(OH) (x=) Tj ETQqC	000.ggBT /	Overlock 10

71	Comparative structural and electrochemical study of high density spherical and non-spherical Ni(OH)2 as cathode materials for Ni–metal hydride batteries. Journal of Power Sources, 2011, 196, 7797-7805.	7.8	42
72	DMSO-Assisted Liquid-Phase Synthesis of LiFePO4/C Nanocomposites with High-Rate Cycling as Cathode Materials for Lithium Ion Batteries. Electrochemical and Solid-State Letters, 2011, 14, A90.	2.2	9

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73	Effects of open-circuit operation on membrane and catalyst layer degradation in proton exchange membrane fuel cells. Journal of Power Sources, 2010, 195, 1142-1148.	7.8	82
74	Proton exchange membrane fuel cell degradation under close to open-circuit conditions. Journal of Power Sources, 2010, 195, 1171-1176.	7.8	112
75	In situ accelerated degradation of gas diffusion layer in proton exchange membrane fuel cellPart I: Effect of elevated temperature and flow rate. Journal of Power Sources, 2010, 195, 1888-1894.	7.8	51
76	Degradation of a polymer exchange membrane fuel cell stack with Nafion® membranes of different thicknesses: Part I. In situ diagnosis. Journal of Power Sources, 2010, 195, 7594-7599.	7.8	99
77	Synthesis and characterization of high-density non-spherical Ni(OH)2 cathode material for Ni–MH batteries. International Journal of Hydrogen Energy, 2010, 35, 9716-9724.	7.1	46
78	Effects of precursor treatment with reductant or oxidant on the structure and electrochemical properties of LiNi0.5Mn1.5O4. Electrochimica Acta, 2010, 55, 5506-5510.	5.2	19
79	Atomic Force Microscopy Investigation of Polymer Fuel Cell Gas Diffusion Layers before and after Operation. ECS Transactions, 2010, 28, 79-84.	0.5	5
80	Synthesis and performance of high tap density LiFePO4/C cathode materials doped with copper ions. Journal of Alloys and Compounds, 2010, 501, 14-17.	5.5	17
81	Measurement of water transport rates across the gas diffusion layer in a proton exchange membrane fuel cell, and the influence of polytetrafluoroethylene content and micro-porous layer. Journal of Power Sources, 2009, 188, 122-126.	7.8	31
82	A review of platinum-based catalyst layer degradation in proton exchange membrane fuel cells. Journal of Power Sources, 2009, 194, 588-600.	7.8	547
83	Synthesis and characterization of high-density LiFePO4/C composites as cathode materials for lithium-ion batteries. Electrochimica Acta, 2009, 54, 4595-4599.	5.2	95
84	A review on water balance in the membrane electrode assembly of proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2009, 34, 9461-9478.	7.1	342
85	The synthesis of Li(Ni1/3Co1/3Mn1/3)O2 using eutectic mixed lithium salt LiNO3–LiOH. Electrochimica Acta, 2009, 54, 6529-6535.	5.2	44
86	Synthesis and Electrochemical Properties of High Density LiNi[sub 0.8]Co[sub 0.2â^'x]Ti[sub x]O[sub 2] for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2009, 156, A478.	2.9	9
87	Electro-generative hydrogenation of allyl alcohol applying PEM fuel cell reactor. Electrochemistry Communications, 2003, 5, 189-193.	4.7	20
88	Structural and electrochemical characterization of carbonaceous mesophase spherule anode material for rechargeable lithium batteries. Electrochemistry Communications, 2002, 4, 188-192.	4.7	19
89	Cogeneration of cyclohexylamine and electrical power using PEM fuel cell reactor. Electrochemistry Communications, 2001, 3, 599-602.	4.7	34