

# Junhua Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10858323/publications.pdf>

Version: 2024-02-01

29  
papers

4,275  
citations

279487

23  
h-index

476904

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

4130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-Fed Hydroxide Exchange Membrane Electrolyzer Enabled by a Fluoride-Incorporated Nickel-Iron Oxyhydroxide Oxygen Evolution Electrode. <i>ACS Catalysis</i> , 2021, 11, 264-270.	5.5	101
2	A High-Performance Gas-Fed Direct Ammonia Hydroxide Exchange Membrane Fuel Cell. <i>ACS Energy Letters</i> , 2021, 6, 1996-2002.	8.8	22
3	Low-temperature direct ammonia fuel cells: Recent developments and remaining challenges. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 335-344.	2.5	47
4	An Efficient Direct Ammonia Fuel Cell for Affordable Carbon-Neutral Transportation. <i>Joule</i> , 2019, 3, 2472-2484.	11.7	227
5	High-Performance Hydroxide Exchange Membrane Fuel Cells through Optimization of Relative Humidity, Backpressure and Catalyst Selection. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3305-F3310.	1.3	49
6	Poly(aryl piperidinium) membranes and ionomers for hydroxide exchange membrane fuel cells. <i>Nature Energy</i> , 2019, 4, 392-398.	19.8	570
7	A Roadmap to Low-Cost Hydrogen with Hydroxide Exchange Membrane Electrolyzers. <i>Advanced Materials</i> , 2019, 31, e1805876.	11.1	184
8	Relating alkaline stability to the structure of quaternary phosphonium cations. <i>RSC Advances</i> , 2018, 8, 26640-26645.	1.7	12
9	A quaternary-ammonium-functionalized covalent organic framework for anion conduction. <i>CrystEngComm</i> , 2017, 19, 4905-4910.	1.3	49
10	Surface enhanced spectroscopic investigations of adsorption of cations on electrochemical interfaces. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 971-975.	1.3	50
11	Low-Voltage Gaseous HCl Electrolysis with an Iron Redox-Mediated Cathode for Chlorine Regeneration. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10735-10739.	7.2	7
12	Low-Voltage Gaseous HCl Electrolysis with an Iron Redox-Mediated Cathode for Chlorine Regeneration. <i>Angewandte Chemie</i> , 2017, 129, 10875-10879.	1.6	3
13	A New Alkali-Stable Phosphonium Cation Based on Fundamental Understanding of Degradation Mechanisms. <i>ChemSusChem</i> , 2016, 9, 2374-2379.	3.6	45
14	Structure-Property Relationships in Hydroxide-Exchange Membranes with Cation Strings and High Ion-Exchange Capacity. <i>ChemSusChem</i> , 2015, 8, 4229-4234.	3.6	85
15	Permethyl Cobaltocenium (Cp* <sub>2</sub> Co <sup>+</sup> ) as an Ultra-Stable Cation for Polymer Hydroxide-Exchange Membranes. <i>Scientific Reports</i> , 2015, 5, 11668.	1.6	111
16	3D Porous Crystalline Polyimide Covalent Organic Frameworks for Drug Delivery. <i>Journal of the American Chemical Society</i> , 2015, 137, 8352-8355.	6.6	838
17	Designed synthesis of large-pore crystalline polyimide covalent organic frameworks. <i>Nature Communications</i> , 2014, 5, 4503.	5.8	535
18	Anion Transport in a Chemically Stable, Sterically Bulky $\hat{\pm}$ -C Modified Imidazolium Functionalized Anion Exchange Membrane. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15136-15145.	1.5	69

#	ARTICLE	IF	CITATIONS
19	Preparation and characterization of positively charged composite nanofiltration membranes by coating poly(ether ether ketone) containing quaternary ammonium groups on polysulfone ultrafiltration membranes. <i>Journal of Applied Polymer Science</i> , 2013, 127, 1601-1608.	1.3	18
20	Stabilizing the Imidazolium Cation in Hydroxide-Exchange Membranes for Fuel Cells. <i>ChemSusChem</i> , 2013, 6, 2079-2082.	3.6	92
21	Tertiary sulfonium as a cationic functional group for hydroxide exchange membranes. <i>RSC Advances</i> , 2012, 2, 12683.	1.7	165
22	Synthesis and characterization of cross-linked poly(arylene ether ketone) containing pendant quaternary ammonium groups for anion-exchange membranes. <i>Journal of Membrane Science</i> , 2012, 415-416, 205-212.	4.1	52
23	Synthesis of multi-block poly(arylene ether sulfone) copolymer membrane with pendant quaternary ammonium groups for alkaline fuel cell. <i>Journal of Power Sources</i> , 2011, 196, 4445-4450.	4.0	124
24	Poly(arylene ether sulfone)s ionomers with pendant quaternary ammonium groups for alkaline anion exchange membranes: Preparation and stability issues. <i>Journal of Membrane Science</i> , 2011, 368, 246-253.	4.1	77
25	Synthesis and alkaline stability of novel cardo poly(aryl ether sulfone)s with pendant quaternary ammonium aliphatic side chains for anion exchange membranes. <i>Polymer</i> , 2010, 51, 5407-5416.	1.8	85
26	Novel Hydroxide-Conducting Polyelectrolyte Composed of an Poly(arylene ether sulfone) Containing Pendant Quaternary Guanidinium Groups for Alkaline Fuel Cell Applications. <i>Macromolecules</i> , 2010, 43, 3890-3896.	2.2	408
27	Double-responsive polyampholyte as a nanoparticle stabilizer: application to reversible dispersion of gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 4379.	6.7	27
28	Synthesis of Soluble Poly(arylene ether sulfone) Ionomers with Pendant Quaternary Ammonium Groups for Anion Exchange Membranes. <i>Macromolecules</i> , 2009, 42, 8711-8717.	2.2	206
29	Synthesis and characterization of soluble poly(amide-imide)s bearing triethylamine sulfonate groups as gas dehumidification membrane material. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3179-3184.	1.3	16