Junhua Wang

List of Publications by Year
in descending order

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29	4,275	279487	476904
papers	citations	23 h-index	29 g-index

30	30	30	4130
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3D Porous Crystalline Polyimide Covalent Organic Frameworks for Drug Delivery. Journal of the American Chemical Society, 2015, 137, 8352-8355.	6.6	838
2	Poly(aryl piperidinium) membranes and ionomers for hydroxide exchange membrane fuel cells. Nature Energy, 2019, 4, 392-398.	19.8	570
3	Designed synthesis of large-pore crystalline polyimide covalent organic frameworks. Nature Communications, 2014, 5, 4503.	5.8	535
4	Novel Hydroxide-Conducting Polyelectrolyte Composed of an Poly(arylene ether sulfone) Containing Pendant Quaternary Guanidinium Groups for Alkaline Fuel Cell Applications. Macromolecules, 2010, 43, 3890-3896.	2.2	408
5	An Efficient Direct Ammonia Fuel Cell for Affordable Carbon-Neutral Transportation. Joule, 2019, 3, 2472-2484.	11.7	227
6	Synthesis of Soluble Poly(arylene ether sulfone) Ionomers with Pendant Quaternary Ammonium Groups for Anion Exchange Membranes. Macromolecules, 2009, 42, 8711-8717.	2.2	206
7	A Roadmap to Lowâ€Cost Hydrogen with Hydroxide Exchange Membrane Electrolyzers. Advanced Materials, 2019, 31, e1805876.	11.1	184
8	Tertiary sulfonium as a cationic functional group for hydroxide exchange membranes. RSC Advances, 2012, 2, 12683.	1.7	165
9	Synthesis of multi-block poly(arylene ether sulfone) copolymer membrane with pendant quaternary ammonium groups for alkaline fuel cell. Journal of Power Sources, 2011, 196, 4445-4450.	4.0	124
10	Permethyl Cobaltocenium (Cp*2Co+) as an Ultra-Stable Cation for Polymer Hydroxide-Exchange Membranes. Scientific Reports, 2015, 5, 11668.	1.6	111
11	Water-Fed Hydroxide Exchange Membrane Electrolyzer Enabled by a Fluoride-Incorporated Nickelâ€“Iron Oxyhydroxide Oxygen Evolution Electrode. ACS Catalysis, 2021, 11, 264-270.	5.5	101
12	Stabilizing the Imidazolium Cation in Hydroxideâ€Exchange Membranes for Fuel Cells. ChemSusChem, 2013, 6, 2079-2082.	3.6	92
13	Synthesis and alkaline stability of novel cardo poly(aryl ether sulfone)s with pendent quaternary ammonium aliphatic side chains for anion exchange membranes. Polymer, 2010, 51, 5407-5416.	1.8	85
14	Structureâ€“Property Relationships in Hydroxideâ€Exchange Membranes with Cation Strings and High Ionâ€Exchange Capacity. ChemSusChem, 2015, 8, 4229-4234.	3.6	85
15	Poly(arylene ether sulfone)s ionomers with pendant quaternary ammonium groups for alkaline anion exchange membranes: Preparation and stability issues. Journal of Membrane Science, 2011, 368, 246-253.	4.1	77
16	Anion Transport in a Chemically Stable, Sterically Bulky Î±-C Modified Imidazolium Functionalized Anion Exchange Membrane. Journal of Physical Chemistry C, 2014, 118, 15136-15145.	1.5	69
17	Synthesis and characterization of cross-linked poly(arylene ether ketone) containing pendant quaternary ammonium groups for anion-exchange membranes. Journal of Membrane Science, 2012, 415-416, 205-212.	4.1	52
18	Surface enhanced spectroscopic investigations of adsorption of cations on electrochemical interfaces. Physical Chemistry Chemical Physics, 2017, 19, 971-975.	1.3	50

#	Article	IF	Citations
19	A quaternary-ammonium-functionalized covalent organic framework for anion conduction. CrystEngComm, 2017, 19, 4905-4910.	1.3	49
20	High-Performance Hydroxide Exchange Membrane Fuel Cells through Optimization of Relative Humidity, Backpressure and Catalyst Selection. Journal of the Electrochemical Society, 2019, 166, F3305-F3310.	1.3	49
21	Low-temperature direct ammonia fuel cells: Recent developments and remaining challenges. Current Opinion in Electrochemistry, 2020, 21, 335-344.	2.5	47
22	A New Alkaliâ€Stable Phosphonium Cation Based on Fundamental Understanding of Degradation Mechanisms. ChemSusChem, 2016, 9, 2374-2379.	3.6	45
23	Double-responsive polyampholyte as a nanoparticle stabilizer: application to reversible dispersion of gold nanoparticles. Journal of Materials Chemistry, 2010, 20, 4379.	6.7	27
24	A High-Performance Gas-Fed Direct Ammonia Hydroxide Exchange Membrane Fuel Cell. ACS Energy Letters, 2021, 6, 1996-2002.	8.8	22
25	Preparation and characterization of positively charged composite nanofiltration membranes by coating poly(ether ether ketone) containing quaternary ammonium groups on polysulfone ultrafiltration membranes. Journal of Applied Polymer Science, 2013, 127, 1601-1608.	1.3	18
26	Synthesis and characterization of soluble poly(amideâ€imide)s bearing triethylamine sulfonate groups as gas dehumidification membrane material. Journal of Applied Polymer Science, 2007, 106, 3179-3184.	1.3	16
27	Relating alkaline stability to the structure of quaternary phosphonium cations. RSC Advances, 2018, 8, 26640-26645.	1.7	12
28	Lowâ€Voltage Gaseous HCl Electrolysis with an Iron Redoxâ€Mediated Cathode for Chlorine Regeneration. Angewandte Chemie - International Edition, 2017, 56, 10735-10739.	7.2	7
29	Lowâ€Voltage Gaseous HCl Electrolysis with an Iron Redoxâ€Mediated Cathode for Chlorine Regeneration. Angewandte Chemie, 2017, 129, 10875-10879.	1.6	3