

Shanna Knights

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25
papers

3,407
citations

21
h-index

25
g-index

25
ext. papers

3,706
ext. citations

9.4
avg, IF

4.74
L-index

#	Paper	IF	Citations
25	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2019 , 9, 5365-5374	13.1	21
24	Membrane Accelerated Stress Test Development for Polymer Electrolyte Fuel Cell Durability Validated Using Field and Drive Cycle Testing. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F3085-F3093	3.9	59
23	Predicting Membrane Lifetime with Cerium Oxide in Heavy Duty Fuel Cell Systems. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F780-F785	3.9	8
22	Web-like 3D Architecture of Pt Nanowires and Sulfur-Doped Carbon Nanotube with Superior Electrocatalytic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 93-98	8.3	36
21	Empirical membrane lifetime model for heavy duty fuel cell systems. <i>Journal of Power Sources</i> , 2016 , 336, 240-250	8.9	22
20	Optimization of sulfur-doped graphene as an emerging platinum nanowires support for oxygen reduction reaction. <i>Nano Energy</i> , 2016 , 19, 27-38	17.1	46
19	Effect of catalyst layer defects on local membrane degradation in polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2016 , 322, 17-25	8.9	31
18	Accelerated Membrane Durability Testing of Heavy Duty Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F98-F107	3.9	60
17	Multigrain platinum nanowires consisting of oriented nanoparticles anchored on sulfur-doped graphene as a highly active and durable oxygen reduction electrocatalyst. <i>Advanced Materials</i> , 2015 , 27, 1229-34	24	106
16	Extremely stable platinum nanoparticles encapsulated in a zirconia nanocage by area-selective atomic layer deposition for the oxygen reduction reaction. <i>Advanced Materials</i> , 2015 , 27, 277-81	24	206
15	UV-visible spectroscopy method for screening the chemical stability of potential antioxidants for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2015 , 281, 238-242	8.9	15
14	High stability and activity of Pt electrocatalyst on atomic layer deposited metal oxide/nitrogen-doped graphene hybrid support. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 15967-15974	6.7	43
13	Effect of CeOx Crystallite Size on the Chemical Stability of CeOx Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1075-F1080	3.9	27
12	Pt/SnO ₂ /nitrogen-doped CNT hybrid catalysts for proton-exchange membrane fuel cells (PEMFC): Effects of crystalline and amorphous SnO ₂ by atomic layer deposition. <i>Journal of Power Sources</i> , 2013 , 238, 144-149	8.9	37
11	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , 2013 , 3,	4.9	589
10	Interactive Effects of Membrane Additives on PEMFC Catalyst Layer Degradation. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F27-F33	3.9	19
9	Highly Durable Platinum-Cobalt Nanowires by Microwave Irradiation as Oxygen Reduction Catalyst for PEM Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, B83		24

8	High oxygen-reduction activity and durability of nitrogen-doped graphene. <i>Energy and Environmental Science</i> , 2011 , 4, 760	35.4	1073
7	Atomic layer deposition assisted Pt-SnO ₂ hybrid catalysts on nitrogen-doped CNTs with enhanced electrocatalytic activities for low temperature fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11085-11092	6.7	53
6	3D boron doped carbon nanorods/carbon-microfiber hybrid composites: synthesis and applications in a highly stable proton exchange membrane fuel cell. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18195		36
5	Nitrogen Doping Effects on Carbon Nanotubes and the Origin of the Enhanced Electrocatalytic Activity of Supported Pt for Proton-Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3769-3776	3.8	211
4	Nitrogen doping effects on the structure of graphene. <i>Applied Surface Science</i> , 2011 , 257, 9193-9198	6.7	400
3	Non-noble metal oxygen reduction electrocatalysts based on carbon nanotubes with controlled nitrogen contents. <i>Journal of Power Sources</i> , 2011 , 196, 1795-1801	8.9	102
2	Relative Humidity Effect on Anode Durability in PEMFC Startup/Shutdown Processes. <i>ECS Transactions</i> , 2010 , 33, 1273-1279	1	7
1	Enhanced stability of Pt electrocatalysts by nitrogen doping in CNTs for PEM fuel cells. <i>Electrochemistry Communications</i> , 2009 , 11, 2071-2076	5.1	176