

# Shanna Knights

## List of Publications by Citations

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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	High oxygen-reduction activity and durability of nitrogen-doped graphene. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 760	35.4	1073
24	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	589
23	Nitrogen doping effects on the structure of graphene. <i>Applied Surface Science</i> , <b>2011</b> , 257, 9193-9198	6.7	400
22	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> , <b>2011</b> , 115, 3769-3776	3.8	211
21	Extremely stable platinum nanoparticles encapsulated in a zirconia nanocage by area-selective atomic layer deposition for the oxygen reduction reaction. <i>Advanced Materials</i> , <b>2015</b> , 27, 277-81	24	206
20	Enhanced stability of Pt electrocatalysts by nitrogen doping in CNTs for PEM fuel cells. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 2071-2076	5.1	176
19	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> , <b>2015</b> , 27, 1229-34	24	106
18	Non-noble metal oxygen reduction electrocatalysts based on carbon nanotubes with controlled nitrogen contents. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 1795-1801	8.9	102
17	Accelerated Membrane Durability Testing of Heavy Duty Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, F98-F107	3.9	60
16	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> , <b>2018</b> , 165, F3085-F3093	3.9	59
15	Atomic layer deposition assisted Pt-SnO <sub>2</sub> hybrid catalysts on nitrogen-doped CNTs with enhanced electrocatalytic activities for low temperature fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 11085-11092	6.7	53
14	Optimization of sulfur-doped graphene as an emerging platinum nanowires support for oxygen reduction reaction. <i>Nano Energy</i> , <b>2016</b> , 19, 27-38	17.1	46
13	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> , <b>2014</b> , 39, 15967-15974	6.7	43
12	PtSnO <sub>2</sub> /nitrogen-doped CNT hybrid catalysts for proton-exchange membrane fuel cells (PEMFC): Effects of crystalline and amorphous SnO <sub>2</sub> by atomic layer deposition. <i>Journal of Power Sources</i> , <b>2013</b> , 238, 144-149	8.9	37
11	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> , <b>2011</b> , 21, 18195		36
10	Web-like 3D Architecture of Pt Nanowires and Sulfur-Doped Carbon Nanotube with Superior Electrocatalytic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 93-98	8.3	36
9	Effect of catalyst layer defects on local membrane degradation in polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , <b>2016</b> , 322, 17-25	8.9	31

8	Effect of CeOx Crystallite Size on the Chemical Stability of CeOx Nanoparticles. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, F1075-F1080	3.9	27
7	Highly Durable Platinum-Cobalt Nanowires by Microwave Irradiation as Oxygen Reduction Catalyst for PEM Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , <b>2012</b> , 15, B83		24
6	Empirical membrane lifetime model for heavy duty fuel cell systems. <i>Journal of Power Sources</i> , <b>2016</b> , 336, 240-250	8.9	22
5	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. <i>ACS Catalysis</i> , <b>2019</b> , 9, 5365-5374	13.1	21
4	Interactive Effects of Membrane Additives on PEMFC Catalyst Layer Degradation. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, F27-F33	3.9	19
3	UV-visible spectroscopy method for screening the chemical stability of potential antioxidants for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 281, 238-242	8.9	15
2	Predicting Membrane Lifetime with Cerium Oxide in Heavy Duty Fuel Cell Systems. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F780-F785	3.9	8
1	Relative Humidity Effect on Anode Durability in PEMFC Startup/Shutdown Processes. <i>ECS Transactions</i> , <b>2010</b> , 33, 1273-1279	1	7