

# Shanna Knights

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

3,960  
citations

304602

22  
h-index

580701

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

6679  
citing authors

#	ARTICLE	IF	CITATIONS
1	High oxygen-reduction activity and durability of nitrogen-doped graphene. Energy and Environmental Science, 2011, 4, 760.	15.6	1,153
2	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. Scientific Reports, 2013, 3, .	1.6	719
3	Nitrogen doping effects on the structure of graphene. Applied Surface Science, 2011, 257, 9193-9198.	3.1	476
4	Extremely Stable Platinum Nanoparticles Encapsulated in a Zirconia Nanocage by Area-Selective Atomic Layer Deposition for the Oxygen Reduction Reaction. Advanced Materials, 2015, 27, 277-281.	11.1	238
5	Nitrogen Doping Effects on Carbon Nanotubes and the Origin of the Enhanced Electrocatalytic Activity of Supported Pt for Proton-Exchange Membrane Fuel Cells. Journal of Physical Chemistry C, 2011, 115, 3769-3776.	1.5	228
6	Enhanced stability of Pt electrocatalysts by nitrogen doping in CNTs for PEM fuel cells. Electrochemistry Communications, 2009, 11, 2071-2076.	2.3	196
7	Multigrain Platinum Nanowires Consisting of Oriented Nanoparticles Anchored on Sulfur-Doped Graphene as a Highly Active and Durable Oxygen Reduction Electrocatalyst. Advanced Materials, 2015, 27, 1229-1234.	11.1	126
8	Non-noble metal oxygen reduction electrocatalysts based on carbon nanotubes with controlled nitrogen contents. Journal of Power Sources, 2011, 196, 1795-1801.	4.0	105
9	Membrane Accelerated Stress Test Development for Polymer Electrolyte Fuel Cell Durability Validated Using Field and Drive Cycle Testing. Journal of the Electrochemical Society, 2018, 165, F3085-F3093.	1.3	89
10	Accelerated Membrane Durability Testing of Heavy Duty Fuel Cells. Journal of the Electrochemical Society, 2015, 162, F98-F107.	1.3	65
11	Optimization of sulfur-doped graphene as an emerging platinum nanowires support for oxygen reduction reaction. Nano Energy, 2016, 19, 27-38.	8.2	58
12	Atomic layer deposition assisted Pt-SnO <sub>2</sub> hybrid catalysts on nitrogen-doped CNTs with enhanced electrocatalytic activities for low temperature fuel cells. International Journal of Hydrogen Energy, 2011, 36, 11085-11092.	3.8	57
13	Web-like 3D Architecture of Pt Nanowires and Sulfur-Doped Carbon Nanotube with Superior Electrocatalytic Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 93-98.	3.2	57
14	High stability and activity of Pt electrocatalyst on atomic layer deposited metal oxide/nitrogen-doped graphene hybrid support. International Journal of Hydrogen Energy, 2014, 39, 15967-15974.	3.8	51
15	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. ACS Catalysis, 2019, 9, 5365-5374.	5.5	47
16	Pt-SnO <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. Journal of Power Sources, 2013, 238, 144-149.	4.0	44
17	Effect of catalyst layer defects on local membrane degradation in polymer electrolyte fuel cells. Journal of Power Sources, 2016, 322, 17-25.	4.0	44
18	Empirical membrane lifetime model for heavy duty fuel cell systems. Journal of Power Sources, 2016, 336, 240-250.	4.0	40

#	ARTICLE	IF	CITATIONS
19	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.	6.7	38
20	Effect of CeOx Crystallite Size on the Chemical Stability of CeOx Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1075-F1080.	1.3	35
21	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.	2.2	30
22	Interactive Effects of Membrane Additives on PEMFC Catalyst Layer Degradation. <i>Journal of the Electrochemical Society</i> , 2013, 160, F27-F33.	1.3	25
23	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.	4.0	18
24	Predicting Membrane Lifetime with Cerium Oxide in Heavy Duty Fuel Cell Systems. <i>Journal of the Electrochemical Society</i> , 2018, 165, F780-F785.	1.3	13
25	Relative Humidity Effect on Anode Durability in PEMFC Startup/Shutdown Processes. <i>ECS Transactions</i> , 2010, 33, 1273-1279.	0.3	8