

Dennis F Van Der Vliet

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.

18
papers

3,526
citations

16
h-index

25
g-index

25
ext. papers

3,836
ext. citations

11.3
avg, IF

4.56
L-index

#	Paper	IF	Citations
18	Improving the hydrogen oxidation reaction rate by promotion of hydroxyl adsorption. <i>Nature Chemistry</i> , 2013 , 5, 300-6	17.6	675
17	Design and synthesis of bimetallic electrocatalyst with multilayered Pt-skin surfaces. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14396-403	16.4	489
16	Multimetallic Au/FePt ₃ nanoparticles as highly durable electrocatalyst. <i>Nano Letters</i> , 2011 , 11, 919-26	11.5	400
15	Mesostructured thin films as electrocatalysts with tunable composition and surface morphology. <i>Nature Materials</i> , 2012 , 11, 1051-8	27	286
14	Unique electrochemical adsorption properties of Pt-skin surfaces. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3139-42	16.4	221
13	Correlation Between Surface Chemistry and Electrocatalytic Properties of Monodisperse Pt _x Ni _{1-x} Nanoparticles. <i>Advanced Functional Materials</i> , 2011 , 21, 147-152	15.6	204
12	Functional links between Pt single crystal morphology and nanoparticles with different size and shape: the oxygen reduction reaction case. <i>Energy and Environmental Science</i> , 2014 , 7, 4061-4069	35.4	176
11	Monodisperse Pt ₃ Co Nanoparticles as a Catalyst for the Oxygen Reduction Reaction: Size-Dependent Activity. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19365-19368	3.8	175
10	On the importance of correcting for the uncompensated Ohmic resistance in model experiments of the Oxygen Reduction Reaction. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 647, 29-34	4.1	155
9	Unique activity of platinum adislands in the CO electrooxidation reaction. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15332-9	16.4	135
8	Rational Development of Ternary Alloy Electrocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1668-73	6.4	116
7	Effects of Li ⁺ , K ⁺ , and Ba ²⁺ Cations on the ORR at Model and High Surface Area Pt and Au Surfaces in Alkaline Solutions. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2733-2736	6.4	115
6	Monodisperse Pt ₃ Co nanoparticles as electrocatalyst: the effects of particle size and pretreatment on electrocatalytic reduction of oxygen. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 6933-9	3.6	114
5	Synthesis of Homogeneous Pt-Bimetallic Nanoparticles as Highly Efficient Electrocatalysts. <i>ACS Catalysis</i> , 2011 , 1, 1355-1359	13.1	111
4	Platinum-alloy nanostructured thin film catalysts for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2011 , 56, 8695-8699	6.7	94
3	Electrochemistry of Pt (100) in alkaline media: A voltammetric study. <i>Surface Science</i> , 2010 , 604, 1912-1918		30
2	Elucidating the degradation mechanism of the cathode catalyst of PEFCs by a combination of electrochemical methods and X-ray fluorescence spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22407-15	3.6	15

1 Fine Tuning of Activity for Nanoscale Catalysts. *ECS Transactions*, **2009**, 16, 1151-1160

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