Dennis F Van Der Vliet

List of Publications by Year
in descending order

24	4,128	516215 16	752256 20
papers	citations	h-index	g-index

25	25	25	5134
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Elucidating the degradation mechanism of the cathode catalyst of PEFCs by a combination of electrochemical methods and X-ray fluorescence spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 22407-22415.	1.3	16
2	Functional links between Pt single crystal morphology and nanoparticles with different size and shape: the oxygen reduction reaction case. Energy and Environmental Science, 2014, 7, 4061-4069.	15.6	205
3	Improving the hydrogen oxidation reaction rate by promotion of hydroxyl adsorption. Nature Chemistry, 2013, 5, 300-306.	6.6	945
4	Mesostructured thin films as electrocatalysts with tunable composition and surface morphology. Nature Materials, 2012, 11, 1051-1058.	13.3	323
5	Rational Development of Ternary Alloy Electrocatalysts. Journal of Physical Chemistry Letters, 2012, 3, 1668-1673.	2.1	130
6	Towards Nano-engineered Pt-skin High Surface Area Catalysts. ECS Meeting Abstracts, 2012, , .	0.0	1
7	Unique Electrochemical Adsorption Properties of Ptâ€Skin Surfaces. Angewandte Chemie - International Edition, 2012, 51, 3139-3142.	7.2	264
8	Advanced Electrocatalysts for PEM Fuel Cells. ECS Meeting Abstracts, 2012, , .	0.0	0
9	Effects of Li⁺, K⁺, and Ba²⁺ Cations on the ORR at Model and High Surface Area Pt and Au Surfaces in Alkaline Solutions. Journal of Physical Chemistry Letters, 2011, 2, 2733-2736.	2.1	142
10	Multimetallic Au/FePt₃ Nanoparticles as Highly Durable Electrocatalyst. Nano Letters, 2011, 11, 919-926.	4.5	435
11	Design and Synthesis of Bimetallic Electrocatalyst with Multilayered Pt-Skin Surfaces. Journal of the American Chemical Society, 2011, 133, 14396-14403.	6.6	541
12	Synthesis of Homogeneous Pt-Bimetallic Nanoparticles as Highly Efficient Electrocatalysts. ACS Catalysis, 2011, 1, 1355-1359.	5.5	124
13	Platinum-alloy nanostructured thin film catalysts for the oxygen reduction reaction. Electrochimica Acta, 2011, 56, 8695-8699.	2.6	101
14	Correlation Between Surface Chemistry and Electrocatalytic Properties of Monodisperse Pt_xNi_{1â€x} Nanoparticles. Advanced Functional Materials, 2011, 21, 147-152.	7.8	218
15	Electrocatalysis on Well-Defined Solid-Liquid Interfaces. ECS Meeting Abstracts, 2011, , .	0.0	0
16	On the importance of correcting for the uncompensated Ohmic resistance in model experiments of the Oxygen Reduction Reaction. Journal of Electroanalytical Chemistry, 2010, 647, 29-34.	1.9	177
17	Electrochemistry of Pt (100) in alkaline media: A voltammetric study. Surface Science, 2010, 604, 1912-1918.	0.8	31
18	Design and Synthesis of Advanced Nanoscale Electrocatalysts. ECS Meeting Abstracts, 2010, , .	0.0	0

#	Article	IF	Citations
19	Monodisperse Pt3Co nanoparticles as electrocatalyst: the effects of particle size and pretreatment on electrocatalytic reduction of oxygen. Physical Chemistry Chemical Physics, 2010, 12, 6933.	1.3	124
20	Monodisperse Pt₃Co Nanoparticles as a Catalyst for the Oxygen Reduction Reaction: Size-Dependent Activity. Journal of Physical Chemistry C, 2009, 113, 19365-19368.	1.5	192
21	Active Sites for PEM Fuel Cell Reactions. ECS Meeting Abstracts, 2009, , .	0.0	0
22	Multimetallic Catalysts for the Oxygen Reduction Reaction. ECS Meeting Abstracts, 2009, , .	0.0	2
23	Unique Activity of Platinum Adislands in the CO Electrooxidation Reaction. Journal of the American Chemical Society, 2008, 130, 15332-15339.	6.6	142
24	Fine Tuning of Activity for Nanoscale Catalysts. ECS Transactions, 2008, 16, 1151-1160.	0.3	0