

Dennis F Van Der Vliet

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

4,128
citations

516215

16
h-index

752256

20
g-index

25
all docs

25
docs citations

25
times ranked

5134
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the hydrogen oxidation reaction rate by promotion of hydroxyl adsorption. <i>Nature Chemistry</i> , 2013, 5, 300-306.	6.6	945
2	Design and Synthesis of Bimetallic Electrocatalyst with Multilayered Pt-Skin Surfaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 14396-14403.	6.6	541
3	Multimetallic Au/FePt ₃ Nanoparticles as Highly Durable Electrocatalyst. <i>Nano Letters</i> , 2011, 11, 919-926.	4.5	435
4	Mesostructured thin films as electrocatalysts with tunable composition and surface morphology. <i>Nature Materials</i> , 2012, 11, 1051-1058.	13.3	323
5	Unique Electrochemical Adsorption Properties of Pt-Skin Surfaces. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3139-3142.	7.2	264
6	Correlation Between Surface Chemistry and Electrocatalytic Properties of Monodisperse Pt _x Ni _{1-x} Nanoparticles. <i>Advanced Functional Materials</i> , 2011, 21, 147-152.	7.8	218
7	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.	15.6	205
8	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.	1.5	192
9	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.	1.9	177
10	Unique Activity of Platinum Adislands in the CO Electrooxidation Reaction. <i>Journal of the American Chemical Society</i> , 2008, 130, 15332-15339.	6.6	142
11	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.	2.1	142
12	Rational Development of Ternary Alloy Electrocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1668-1673.	2.1	130
13	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.	1.3	124
14	Synthesis of Homogeneous Pt-Bimetallic Nanoparticles as Highly Efficient Electrocatalysts. <i>ACS Catalysis</i> , 2011, 1, 1355-1359.	5.5	124
15	Platinum-alloy nanostructured thin film catalysts for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2011, 56, 8695-8699.	2.6	101
16	Electrochemistry of Pt (100) in alkaline media: A voltammetric study. <i>Surface Science</i> , 2010, 604, 1912-1918.	0.8	31
17	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, 22407-22415.	1.3	16
18	Multimetallic Catalysts for the Oxygen Reduction Reaction. <i>ECS Meeting Abstracts</i> , 2009, , .	0.0	2

#	ARTICLE	IF	CITATIONS
19	Towards Nano-engineered Pt-skin High Surface Area Catalysts. ECS Meeting Abstracts, 2012, , .	0.0	1
20	Fine Tuning of Activity for Nanoscale Catalysts. ECS Transactions, 2008, 16, 1151-1160.	0.3	0
21	Design and Synthesis of Advanced Nanoscale Electrocatalysts. ECS Meeting Abstracts, 2010, , .	0.0	0
22	Active Sites for PEM Fuel Cell Reactions. ECS Meeting Abstracts, 2009, , .	0.0	0
23	Electrocatalysis on Well-Defined Solid-Liquid Interfaces. ECS Meeting Abstracts, 2011, , .	0.0	0
24	Advanced Electrocatalysts for PEM Fuel Cells. ECS Meeting Abstracts, 2012, , .	0.0	0