Jane HvolbÃ¦k Nielsen

List of Publications by Year
in descending order

41 papers	11,573 citations	293460 24 h-index	325983 40 g-index
42 all docs	42 docs citations	42 times ranked	16918 citing authors

#	Article	IF	Citations
1	Novel micro-reactor flow cell for investigation ofÂmodel catalysts usingin situgrazing-incidence X-ray scattering. Journal of Synchrotron Radiation, 2016, 23, 455-463.	1.0	2
2	Shape-Selection of Thermodynamically Stabilized Colloidal Pd and Pt Nanoparticles Controlled via Support Effects. Journal of Physical Chemistry C, 2015, 119, 29178-29185.	1.5	7
3	Dynamic Behavior of CuZn Nanoparticles under Oxidizing and Reducing Conditions. Journal of Physical Chemistry C, 2015, 119, 2804-2812.	1.5	49
4	Reduction of a Ni/Spinel Catalyst for Methane Reforming. Journal of Physical Chemistry C, 2015, 119, 1424-1432.	1.5	12
5	Morphology of Ruthenium Particles for Methanation under Reactive Conditions. Microscopy and Microanalysis, 2014, 20, 416-417.	0.2	0
6	An Open-Source Data Storage and Visualization Back End for Experimental Data. Journal of the Association for Laboratory Automation, 2014, 19, 183-190.	2.8	3
7	Mass-selected nanoparticles of PtxY as model catalysts for oxygen electroreduction. Nature Chemistry, 2014, 6, 732-738.	6.6	298
8	Methanation on mass-selected Ru nanoparticles on a planar SiO2 model support: The importance of under-coordinated sites. Journal of Catalysis, 2013, 308, 282-290.	3.1	20
9	Probing the active sites for CO dissociation on ruthenium nanoparticles. Physical Chemistry Chemical Physics, 2012, 14, 8005.	1.3	25
10	Structural Modification of Platinum Model Systems under High Pressure CO Annealing. Journal of Physical Chemistry C, 2012, 116, 15353-15360.	1.5	19
11	The Effect of Size on the Oxygen Electroreduction Activity of Massâ€Selected Platinum Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 4641-4643.	7.2	319
12	Scanning Tunneling Microscopy Evidence for the Dissociation of Carbon Monoxide on Ruthenium Steps. Journal of Physical Chemistry C, 2012, 116, 14350-14359.	1.5	30
13	Is the methanation reaction over Ru single crystals structure dependent?. Physical Chemistry Chemical Physics, 2011, 13, 4486.	1.3	21
14	Probing the crossover in CO desorption from single crystal to nanoparticulate Ru model catalysts. Physical Chemistry Chemical Physics, 2011, 13, 10333.	1.3	11
15	Catalytic oxidation of graphite by mass-selected ruthenium nanoparticles. Carbon, 2011, 49, 376-385.	5.4	14
16	The morphology of mass selected ruthenium nanoparticles from a magnetron-sputter gas-aggregation source. Journal of Nanoparticle Research, 2010, 12, 1249-1262.	0.8	53
17	Self Blocking of CO Dissociation on a Stepped Ruthenium Surface. Topics in Catalysis, 2010, 53, 357-364.	1.3	44
18	Combined spectroscopy and microscopy of supported MoS2 nanoparticles. Surface Science, 2009, 603, 1182-1189.	0.8	30

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19	A comparative STM study of Ru nanoparticles deposited on HOPG by mass-selected gas aggregation versus thermal evaporation. Surface Science, 2009, 603, 3420-3430.	0.8	25
20	Batch chemical microreactors: Reversible, in situ UHV sealing of a microcavity. Microelectronic Engineering, 2009, 86, 1389-1392.	1.1	0
21	CO dissociation on Ni: The effect of steps and of nickel carbonyl. Surface Science, 2008, 602, 733-743.	0.8	72
22	Structure sensitivity of the methanation reaction: H2-induced CO dissociation on nickel surfaces. Journal of Catalysis, 2008, 255, 6-19.	3.1	411
23	Identification of Active Edge Sites for Electrochemical H ₂ Evolution from MoS ₂ Nanocatalysts. Science, 2007, 317, 100-102.	6.0	5,149
24	Decomposition of lithium amide and imide films on nickel. Surface Science, 2007, 601, 830-836.	0.8	7
25	Growth and decomposition of lithium and lithium hydride on nickel. Surface Science, 2006, 600, 1468-1474.	0.8	18
26	PtRu Colloid Nanoparticles for CO Oxidation in Microfabricated Reactors. Catalysis Letters, 2006, 109, 7-12.	1.4	3
27	Biomimetic Hydrogen Evolution: MoS2 Nanoparticles as Catalyst for Hydrogen Evolution. ChemInform, 2005, 36, no.	0.1	12
28	Biomimetic Hydrogen Evolution:Â MoS2Nanoparticles as Catalyst for Hydrogen Evolution. Journal of the American Chemical Society, 2005, 127, 5308-5309.	6.6	3,497
29	Methanol Synthesis on Potassium-Modified Cu(100) from CO + H2 and CO + CO2 + H2. Topics in Catalysis, 2003, 22, 151-160.	1.3	26
30	N2 dissociation on Fe(110) and Fe/Ru(0001): what is the role of steps?. Surface Science, 2001, 491, 183-194.	0.8	67
31	Molecular beam study of N2 dissociation on Ru(0001). Physical Chemistry Chemical Physics, 2001, 3, 2007-2011.	1.3	34
32	Methanol Decomposition on Pt/ZnO(0001)â˜Zn Model Catalysts. Journal of Physical Chemistry B, 2001, 105, 9273-9279.	1.2	26
33	Enthalpies of adsorption of metal atoms on single-crystalline surfaces by microcalorimetry. Journal of Chemical Thermodynamics, 2001, 33, 333-345.	1.0	18
34	Catalyst dynamics: consequences for classical kinetic descriptions of reactors. Chemical Engineering Journal, 2001, 82, 219-230.	6.6	9
35	Dissociative sticking of CH4 on Ru(0001). Journal of Chemical Physics, 1999, 110, 2637-2642.	1.2	46
36	From fundamental studies of reactivity on single crystals to the design of catalysts. Surface Science Reports, 1999, 35, 163-222.	3.8	209

#	ARTICLE	IF	CITATIONS
37	Role of Steps inN2Activation on Ru(0001). Physical Review Letters, 1999, 83, 1814-1817.	2.9	706
38	Enhanced reactivity of pseudomorphic Co on Cu(111). Catalysis Letters, 1998, 52, 1-5.	1.4	3
39	Increased dissociation probability of CH4 on Co/Cu(111). Surface Science, 1998, 405, 62-73.	0.8	50
40	Designing surface alloys with specific active sites. Catalysis Letters, 1996, 40, 131-135.	1.4	77
41	Modification of Ni(111) reactivity toward CH4, CO, and D2 by twoâ€dimensional alloying. Journal of Chemical Physics, 1996, 104, 7289-7295.	1.2	107