Claus Hviid Christensen

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73 papers 11,171 47 h-index 73 g-index

73 ext. papers ext. citations 8.9 avg, IF 6.11 L-index

#	Paper	IF	Citations
73	Hierarchical zeolites: enhanced utilisation of microporous crystals in catalysis by advances in materials design. <i>Chemical Society Reviews</i> , 2008 , 37, 2530-42	58.5	1413
72	Catalytic activity of Au nanoparticles. <i>Nano Today</i> , 2007 , 2, 14-18	17.9	927
71	Identification of non-precious metal alloy catalysts for selective hydrogenation of acetylene. <i>Science</i> , 2008 , 320, 1320-2	33.3	795
70	Ammonia for hydrogen storage: challenges and opportunities. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2304		687
69	Templating Mesoporous Zeolites[]Chemistry of Materials, 2008, 20, 946-960	9.6	576
68	The nature of the active site in heterogeneous metal catalysis. Chemical Society Reviews, 2008, 37, 216	3- ₹ 8.5	553
67	Insights into the reactivity of supported Au nanoparticles: combining theory and experiments. <i>Topics in Catalysis</i> , 2007 , 44, 15-26	2.3	356
66	Zeolite-catalyzed biomass conversion to fuels and chemicals. <i>Energy and Environmental Science</i> , 2011 , 4, 793-804	35.4	355
65	Chemistry. Toward efficient hydrogen production at surfaces. <i>Science</i> , 2006 , 312, 1322-3	33.3	343
64	Catalysis with hierarchical zeolites. <i>Catalysis Today</i> , 2011 , 168, 3-16	5.3	301
63	Catalytic benzene alkylation over mesoporous zeolite single crystals: improving activity and selectivity with a new family of porous materials. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13370-1	16.4	296
62	Toward computational screening in heterogeneous catalysis: Pareto-optimal methanation catalysts. <i>Journal of Catalysis</i> , 2006 , 239, 501-506	7.3	284
61	Towards an ammonia-mediated hydrogen economy?. <i>Catalysis Today</i> , 2006 , 111, 140-144	5.3	262
60	Assessing the acid properties of desilicated ZSM-5 by FTIR using CO and 2,4,6-trimethylpyridine (collidine) as molecular probes. <i>Applied Catalysis A: General</i> , 2009 , 356, 23-30	5.1	217
59	Universal Brāsted-Evans-Polanyi Relations for Ctī, Ctī, Ctī, Ntī, Ntī, and Otī Dissociation Reactions. <i>Catalysis Letters</i> , 2011 , 141, 370-373	2.8	215
58	Zeolite H-USY for the production of lactic acid and methyl lactate from C3-sugars. <i>Journal of Catalysis</i> , 2010 , 269, 122-130	7.3	183
57	Aerobic oxidation of aqueous ethanol using heterogeneous gold catalysts: Efficient routes to acetic acid and ethyl acetate. <i>Journal of Catalysis</i> , 2007 , 251, 332-337	7.3	161

(2006-2005)

56	Metal ammine complexes for hydrogen storage. Journal of Materials Chemistry, 2005, 15, 4106		148
55	Aerobic oxidation of aldehydes under ambient conditions using supported gold nanoparticle catalysts. <i>Green Chemistry</i> , 2008 , 10, 168-170	10	143
54	Indirect, reversible high-density hydrogen storage in compact metal ammine salts. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8660-8	16.4	143
53	Direct aerobic oxidation of primary alcohols to methyl esters catalyzed by a heterogeneous gold catalyst. <i>Catalysis Letters</i> , 2007 , 116, 35-40	2.8	132
52	Hydrodeoxygenation of waste fat for diesel production: Study on model feed with Pt/alumina catalyst. <i>Fuel</i> , 2011 , 90, 3433-3438	7.1	126
51	Mesoporous zeolite and zeotype single crystals synthesized in fluoride media. <i>Microporous and Mesoporous Materials</i> , 2007 , 101, 214-223	5.3	121
50	Formation of imines by selective gold-catalysed aerobic oxidative coupling of alcohols and amines under ambient conditions. <i>Green Chemistry</i> , 2010 , 12, 1437	10	113
49	Mesoporous MEL T ype Zeolite Single Crystal Catalysts. <i>Catalysis Letters</i> , 2004 , 96, 205-211	2.8	112
48	A molecular view of heterogeneous catalysis. <i>Journal of Chemical Physics</i> , 2008 , 128, 182503	3.9	107
47	Discovery of technical methanation catalysts based on computational screening. <i>Topics in Catalysis</i> , 2007 , 45, 9-13	2.3	103
46	Oxidations of amines with molecular oxygen using bifunctional gold E tania catalysts. <i>Green Chemistry</i> , 2008 , 10, 419	10	102
45	Crystals in crystals-nanocrystals within mesoporous zeolite single crystals. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8098-102	16.4	101
44	Oxidation of glycerol and propanediols in methanol over heterogeneous gold catalysts. <i>Green Chemistry</i> , 2008 , 10, 408	10	92
43	Chemistry. Green gold catalysis. <i>Science</i> , 2010 , 327, 278-9	33.3	82
42	The Hydrocarbon Pool in Ethanol-to-Gasoline over HZSM-5 Catalysts. <i>Catalysis Letters</i> , 2009 , 127, 1-6	2.8	82
41	Aerobic Oxidation of Alcohols over Gold Catalysts: Role of Acid and Base. <i>Catalysis Letters</i> , 2008 , 126, 213-217	2.8	81
40	Versatile Route to Zeolite Single Crystals with Controlled Mesoporosity: in situ Sugar Decomposition for Templating of Hierarchical Zeolites. <i>Chemistry of Materials</i> , 2007 , 19, 2915-2917	9.6	80
39	Generation of nanopores during desorption of NH3 from Mg(NH3)6Cl2. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16-7	16.4	80

38	Catalytic ammonia decomposition: miniaturized production of COx-free hydrogen for fuel cells. <i>Catalysis Communications</i> , 2005 , 6, 229-232	3.2	79
37	Mechanistic Investigation of the Gold-catalyzed Aerobic Oxidation of Alcohols. <i>Catalysis Letters</i> , 2008 , 120, 184-190	2.8	77
36	Vanadia-based SCR catalysts supported on tungstated and sulfated zirconia: Influence of doping with potassium. <i>Journal of Catalysis</i> , 2007 , 251, 459-473	7.3	76
35	A high-density ammonia storage/delivery system based on Mg(NH3)6Cl2 for SCRDeNOx in vehicles. <i>Chemical Engineering Science</i> , 2006 , 61, 2618-2625	4.4	72
34	BEP relations for N2 dissociation over stepped transition metal and alloy surfaces. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5202-6	3.6	63
33	Mesoporous Carbon Prepared from Carbohydrate as Hard Template for Hierarchical Zeolites. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 3955-3960	2.3	63
32	Improved performance of mesoporous zeolite single crystals in catalytic cracking and isomerization of n-hexadecane. <i>Catalysis Communications</i> , 2004 , 5, 543-546	3.2	63
31	One-PotIIon-Exchange and Mesopore Formation During Desilication. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 1194-1198	2.3	59
30	Renewable hydrogen: carbon formation on Ni and Ru catalysts during ethanol steam-reforming. <i>Green Chemistry</i> , 2007 , 9, 1016	10	56
29	Steam reforming of technical bioethanol for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4547-4554	6.7	56
28	Fe-BEA Zeolite Catalysts for NH3-SCR of NOx. <i>Catalysis Letters</i> , 2009 , 130, 1-8	2.8	49
27	Promoted Ru on high-surface area graphite for efficient miniaturized production of hydrogen from ammonia. <i>Catalysis Letters</i> , 2006 , 112, 77-81	2.8	48
26	High yield of liquid range olefins obtained by converting i-propanol over zeolite H-ZSM-5. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17009-13	16.4	46
25	Aquafaba as an egg white substitute in food foams and emulsions: Protein composition and functional behavior. <i>Food Hydrocolloids</i> , 2019 , 96, 354-364	10.6	38
24	Gas-Phase Oxidation of Aqueous Ethanol by Nanoparticle Vanadia/Anatase Catalysts. <i>Topics in Catalysis</i> , 2009 , 52, 253-257	2.3	37
23	The location of gold nanoparticles on titania: A study by high resolution aberration-corrected electron microscopy and 3D electron tomography. <i>Catalysis Today</i> , 2011 , 160, 165-169	5.3	36
22	Tungstated zirconia as promising carrier for DeNOX catalysts with improved resistance towards alkali poisoning. <i>Applied Catalysis B: Environmental</i> , 2006 , 66, 161-167	21.8	35
21	CullSM-5, CullSM-11, and CullSM-12 catalysts for direct NO decomposition. <i>Catalysis</i> Communications, 2006 , 7, 705-708	3.2	35

20	Size-Selective Oxidation of Aldehydes with Zeolite Encapsulated Gold Nanoparticles. <i>Topics in Catalysis</i> , 2011 , 54, 1026-1033	2.3	33	
19	Trends in catalytic NO decomposition over transition metal surfaces. <i>Topics in Catalysis</i> , 2007 , 45, 117-	1203	31	
18	Microfabricated high-temperature reactor for catalytic partial oxidation of methane. <i>Applied Catalysis A: General</i> , 2005 , 284, 5-10	5.1	30	
17	Effect of alloying on carbon formation during ethane dehydrogenation. <i>Applied Catalysis A: General</i> , 2009 , 358, 269-278	5.1	29	
16	Synthesis and characterization of conventional and mesoporous Ga-MFI for ethane dehydrogenation. <i>Applied Catalysis A: General</i> , 2008 , 348, 257-265	5.1	26	
15	Re/HZSM-5: a new catalyst for ethane aromatization with improved stability. <i>Catalysis Communications</i> , 2003 , 4, 627-630	3.2	24	
14	Hierarchical ZSM-5 prepared by guanidinium base treatment: Understanding microstructural characteristics and impact on MTG and NH3-SCR catalytic reactions. <i>Catalysis Today</i> , 2011 , 168, 71-79	5.3	22	
13	Direct NO decomposition over stepped transition-metal surfaces. <i>Pure and Applied Chemistry</i> , 2007 , 79, 1895-1903	2.1	19	
12	Enhancing the Porosity of Mesoporous Carbon-Templated ZSM-5 by Desilication. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 5185-5189	2.3	17	
11	Nanoporous magnesium aluminometasilicate tablets for precise, controlled, and continuous dosing of chemical reagents and catalysts: applications in parallel solution-phase synthesis. <i>ACS Combinatorial Science</i> , 2007 , 9, 301-5		15	
10	Co-conversion of Ethane and Methanol into Higher Hydrocarbons over Ga/H-ZSM-5, Mo/H-ZSM-5 and Ga-Mo/H-ZSM-5. <i>Catalysis Letters</i> , 2009 , 127, 44-48	2.8	12	
9	Self-assembly of C60 into highly ordered chain-like structures on HOPG observed at ambient conditions. <i>Surface Science</i> , 2007 , 601, L35-L38	1.8	11	
8	Electronic-Structure-Based Design of Ordered Alloys. MRS Bulletin, 2006, 31, 986-990	3.2	11	
7	Dehydrogenation of Light Alkanes Over Rhenium Catalysts on Conventional and Mesoporous MFI Supports. <i>Catalysis Letters</i> , 2006 , 109, 153-156	2.8	10	
6	Improved Automotive NO x Aftertreatment System: Metal Ammine Complexes as NH3 Source for SCR Using Fe-Containing Zeolite Catalysts. <i>Catalysis Letters</i> , 2009 , 128, 94-100	2.8	6	
5	Impact of support and potassium-poisoning on the V2O5IWO3/ZrO2 catalyst performance in ammonia oxidation. <i>Catalysis Communications</i> , 2009 , 10, 803-806	3.2	5	
4	Tailoring the porosity of hierarchical zeolites by carbon-templating. <i>Studies in Surface Science and Catalysis</i> , 2008 , 174, 285-288	1.8	4	
3	Turbostratic Boron Nitride Coated on High-Surface Area Metal Oxide Templates. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 4873-4876	2.3	3	

PtRu Colloid Nanoparticles for CO Oxidation in Microfabricated Reactors. *Catalysis Letters*, **2006**, 109, 7-12

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