Ton V W Janssens

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/2981596/ton-v-w-janssens-publications-by-year.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78	7,295 citations	35	81
papers		h-index	g-index
81 ext. papers	8,061 ext. citations	7.2 avg, IF	5.85 L-index

#	Paper	IF	Citations
78	SO Poisoning of Cu-CHA deNO Catalyst: The Most Vulnerable Cu Species Identified by X-ray Absorption Spectroscopy <i>Jacs Au</i> , 2022 , 2, 787-792		O
77	First-Principles Microkinetic Model for Low-Temperature NH3-Assisted Selective Catalytic Reduction of NO over Cu-CHA. <i>ACS Catalysis</i> , 2021 , 11, 14395-14407	13.1	10
76	Direct measurement of enthalpy and entropy changes in NH3 promoted O2 activation over CultHA at low temperature. <i>ChemCatChem</i> , 2021 , 13, 2577-2582	5.2	5
75	Modeling and Optimization of Multi-functional Ammonia Slip Catalysts for Diesel Exhaust Aftertreatment. <i>Emission Control Science and Technology</i> , 2021 , 7, 7-25	2	2
74	The Role of H+- and Cu+-Sites for N2O Formation during NH3-SCR over Cu-CHA. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 4595-4601	3.8	13
73	Investigating the role of Cu-oxo species in Cu-nitrate formation over Cu-CHA catalysts. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 18322-18337	3.6	3
72	In situ X-ray absorption study of Cu species in Cu-CHA catalysts for NH3-SCR during temperature-programmed reduction in NO/NH3. <i>Research on Chemical Intermediates</i> , 2021 , 47, 357-37.	5 ^{2.8}	3
71	Location and activity of VOx species on TiO2 particles for NH3-SCR catalysis. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119337	21.8	18
70	Structure and Reactivity of Oxygen-Bridged Diamino Dicopper(II) Complexes in Cu-Ion-Exchanged Chabazite Catalyst for NH-Mediated Selective Catalytic Reduction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15884-15896	16.4	51
69	A Complete Multisite Reaction Mechanism for Low-Temperature NH3-SCR over Cu-CHA. <i>ACS Catalysis</i> , 2020 , 10, 5646-5656	13.1	58
68	Evidence of Mixed-Ligand Complexes in CultHA by Reaction of Cu Nitrates with NO/NH3 at Low Temperature. <i>ChemCatChem</i> , 2019 , 11, 3828-3838	5.2	22
67	A comparative test of different density functionals for calculations of NH-SCR over Cu-Chabazite. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10923-10930	3.6	29
66	Temperature-programmed reduction with NO as a characterization of active Cu in Cu-CHA catalysts for NH3-SCR. <i>Catalysis Science and Technology</i> , 2019 , 9, 2608-2619	5.5	14
65	Site selective adsorption and relocation of SOx in deactivation of CullHA catalysts for NH3-SCR. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 1081-1089	4.9	11
64	Dynamic Cull/Cul speciation in Cu-CHA catalysts by in situ Diffuse Reflectance UVIIis-NIR spectroscopy. <i>Applied Catalysis A: General</i> , 2019 , 578, 1-9	5.1	33
63	Temperature-dependent dynamics of NH3-derived Cu species in the Cu-CHA SCR catalyst. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 1067-1080	4.9	33
62	The Role of Protons and Formation Cu(NH3)2+ During Ammonia-Assisted Solid-State Ion Exchange of Copper(I) Oxide into Zeolites. <i>Topics in Catalysis</i> , 2019 , 62, 100-107	2.3	8

(2015-2019)

61	Interpretation of NH3-TPD Profiles from Cu-CHA Using First-Principles Calculations. <i>Topics in Catalysis</i> , 2019 , 62, 93-99	2.3	32
60	Activation of oxygen on (NH3CuNH3)+ in NH3-SCR over Cu-CHA. <i>Journal of Catalysis</i> , 2018 , 358, 179-18	67.3	74
59	Effect of Al-distribution on oxygen activation over CullHA. Catalysis Science and Technology, 2018 , 8, 2131-2136	5.5	35
58	Investigating the Low Temperature Formation of Cu -(N,O) Species on Cu-CHA Zeolites for the Selective Catalytic Reduction of NO. <i>Chemistry - A European Journal</i> , 2018 , 24, 12044-12053	4.8	31
57	Reversible and irreversible deactivation of Cu-CHA NH3-SCRcatalysts by SO2 and SO3. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 38-45	21.8	65
56	Importance of the Cu oxidation state for the SO2-poisoning of a Cu-SAPO-34 catalyst in the NH3-SCR reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 236, 377-383	21.8	40
55	Impact of SO2-poisoning over the lifetime of a Cu-CHA catalyst for NH3-SCR. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 104-110	21.8	40
54	Detailed Study of Cu Migration in the Course of NH3-Facilitated Solid-State Ion-Exchange into *BEA Zeolites. <i>Topics in Catalysis</i> , 2017 , 60, 255-259	2.3	7
53	New insights into catalyst deactivation and product distribution of zeolites in the methanol-to-hydrocarbons (MTH) reaction with methanol and dimethyl ether feeds. <i>Catalysis Science and Technology</i> , 2017 , 7, 2700-2716	5.5	77
52	The Effect of Pt Particle Size on the Oxidation of CO, C3H6, and NO Over Pt/Al2O3 for Diesel Exhaust Aftertreatment. <i>Topics in Catalysis</i> , 2017 , 60, 1333-1344	2.3	24
51	Benzene co-reaction with methanol and dimethyl ether over zeolite and zeotype catalysts: Evidence of parallel reaction paths to toluene and diphenylmethane. <i>Journal of Catalysis</i> , 2017 , 349, 13	6 ⁷ 1 ³ 48	52
50	A molecular dance to cleaner air. <i>Science</i> , 2017 , 357, 866-867	33.3	5
49	Hierarchical Vanadia Model Catalysts for Ammonia Selective Catalytic Reduction. <i>Topics in Catalysis</i> , 2017 , 60, 1631-1640	2.3	6
48	Hydrogen Transfer versus Methylation: On the Genesis of Aromatics Formation in the Methanol-To-Hydrocarbons Reaction over H-ZSM-5. <i>ACS Catalysis</i> , 2017 , 7, 5773-5780	13.1	73
47	Activation of Oxygen and NO in NH3-SCR over Cu-CHA Catalysts Evaluated by Density Functional Theory. <i>Topics in Catalysis</i> , 2016 , 59, 861-865	2.3	29
46	NitrateBitrite equilibrium in the reaction of NO with a Cu-CHA catalyst for NH3-SCR. <i>Catalysis Science and Technology</i> , 2016 , 6, 8314-8324	5.5	39
45	A Consistent Reaction Scheme for the Selective Catalytic Reduction of Nitrogen Oxides with Ammonia. <i>ACS Catalysis</i> , 2015 , 5, 2832-2845	13.1	319
44	Solid-State Ion-Exchange of Copper into Zeolites Facilitated by Ammonia at Low Temperature. <i>ACS Catalysis</i> , 2015 , 5, 16-19	13.1	79

43	Influence of lattice stability on hydrothermal deactivation of Cu-ZSM-5 and Cu-IM-5 zeolites for selective catalytic reduction of NOx by NH3. <i>Journal of Catalysis</i> , 2014 , 309, 477-490	7.3	88
42	Integration of Vanadium and Zeolite Type SCR Functionality into DPF in Exhaust Aftertreatment Systems - Advantages and Challenges 2014 ,		17
41	Catalyst deactivation by coke formation in microporous and desilicated zeolite H-ZSM-5 during the conversion of methanol to hydrocarbons. <i>Journal of Catalysis</i> , 2013 , 307, 62-73	7.3	146
40	Kinetic modeling of deactivation profiles in the methanol-to-hydrocarbons (MTH) reaction: A combined autocatalyticflydrocarbon pool approach. <i>Journal of Catalysis</i> , 2013 , 308, 122-130	7.3	57
39	Product yield in methanol conversion over ZSM-5 is predominantly independent of coke content. <i>Microporous and Mesoporous Materials</i> , 2012 , 164, 190-198	5.3	54
38	Role of internal coke for deactivation of ZSM-5 catalysts after low temperature removal of coke with NO2. <i>Catalysis Science and Technology</i> , 2012 , 2, 1196	5.5	22
37	The energies of formation and mobilities of Cu surface species on Cu and ZnO in methanol and water gas shift atmospheres studied by DFT. <i>Journal of Catalysis</i> , 2012 , 293, 205-214	7.3	43
36	Umwandlung von Methanol in Kohlenwasserstoffe: Wie Zeolith-Hohlrūme und Porengr die Produktselektivit bestimmen. <i>Angewandte Chemie</i> , 2012 , 124, 5910-5933	3.6	148
35	Conversion of methanol to hydrocarbons: how zeolite cavity and pore size controls product selectivity. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5810-31	16.4	1217
34	StructureEeactivation relationship for ZSM-5 catalysts governed by framework defects. <i>Journal of Catalysis</i> , 2011 , 280, 196-205	7.3	212
33	The Cu Promoter in an Iron@hromium@xide Based Water@as Shift Catalyst under Industrial Conditions Studied by in-Situ XAFS. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15410-15416	3.8	34
32	Support effects and catalytic trends for water gas shift activity of transition metals. <i>Journal of Molecular Catalysis A</i> , 2010 , 315, 163-170		25
31	A new approach to the modeling of deactivation in the conversion of methanol on zeolite catalysts. <i>Journal of Catalysis</i> , 2009 , 264, 130-137	7.3	107
30	Synthesis and characterization of mesoporous ZSM-5 core-shell particles for improved catalytic properties. <i>Studies in Surface Science and Catalysis</i> , 2008 , 117-122	1.8	14
29	Catalytic activity of Au nanoparticles. <i>Nano Today</i> , 2007 , 2, 14-18	17.9	927
28	Insights into the reactivity of supported Au nanoparticles: combining theory and experiments. <i>Topics in Catalysis</i> , 2007 , 44, 15-26	2.3	356
27	Relation between nanoscale Au particle structure and activity for CO oxidation on supported gold catalysts. <i>Journal of Catalysis</i> , 2006 , 240, 108-113	7.3	124
26	New method for analysis of nanoparticle geometry in supported fcc metal catalysts with scanning transmission electron microscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5286-93	3.4	50

(1994-2004)

25	On the origin of the catalytic activity of gold nanoparticles for low-temperature CO oxidation. <i>Journal of Catalysis</i> , 2004 , 223, 232-235	7.3	1017
24	The adhesion and shape of nanosized Au particles in a Au/TiO2 catalyst. <i>Journal of Catalysis</i> , 2004 , 225, 86-94	7.3	208
23	1,1- and 1,3-Diiodo Neopentanes on Pt(111): Intermediates during Hydrocarbon Catalytic Conversion Reactions. <i>Journal of Catalysis</i> , 2002 , 208, 345-358	7.3	14
22	Neopentyl iodide on Pt(111). Surface Science, 2002, 501, 16-30	1.8	10
21	Neopentyl iodide on Pt() I. Adsorption and thermal decomposition. Surface Science, 2002, 501, 1-15	1.8	11
20	Sintering of Nickel Steam-Reforming Catalysts on MgAl2O4 Spinel Supports. <i>Journal of Catalysis</i> , 2001 , 197, 200-209	7.3	135
19	Zeolites by confined space synthesis Characterization of the acid sites in nanosized ZSM-5 by ammonia desorption and 27Al/29Si-MAS NMR spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2000 , 39, 393-401	5.3	134
18	Kinetics and mechanism for the H/D exchange between ethylene and deuterium over Pt(111). Journal of Catalysis, 1998 , 177, 284-295	7.3	48
17	Heterogeneity of oxygen-potassium-covered Rh(111): detection with photoemission of adsorbed noble gases. <i>Surface Science</i> , 1998 , 399, 15-28	1.8	3
16	Direct Observation of Surface Reactions of Acetylene on Pd(111) with Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 6521-6528	3.4	29
15	Selectivity among Dehydrogenation Steps for Alkyl Groups on Metal Surfaces: Comparison between Nickel and Platinum Langmuir, 1998, 14, 1320-1327	4	35
14	Change in Reaction Pathway Induced by Deuteration: Thermal Decomposition of Neopentyl Groups on Pt(111) Surfaces. <i>Journal of the American Chemical Society</i> , 1997 , 119, 1169-1170	16.4	25
13	Atomic and macroscopic reaction rates of a surface-catalyzed reaction. <i>Science</i> , 1997 , 278, 1931-4	33.3	314
12	Chemistry of Ethylidene Moieties on Platinum Surfaces: 1,1-Diiodoethane on Pt(111). <i>The Journal of Physical Chemistry</i> , 1996 , 100, 14118-14129		46
11	Reflection absorption infrared spectroscopy and kinetic studies of the reactivity of ethylene on Pt(111) surfaces. <i>Surface Science</i> , 1996 , 368, 371-376	1.8	82
10	The role of hydrogen-deuterium exchange reactions in the conversion of ethylene to ethylidyne on Pt(111). <i>Surface Science</i> , 1995 , 344, 77-84	1.8	43
9	Surface potential around potassium promoter atoms on Rh(111) measured with photoemission of adsorbed Xe, Kr, and Ar. <i>Physical Review B</i> , 1994 , 49, 14599-14609	3.3	26
8	Effect of adsorbed potassium on the electrostatic potential on Rh clusters in relation with photoemission of adsorbed noble gases. <i>Journal of Chemical Physics</i> , 1994 , 101, 2995-3000	3.9	5

7	Long and short range effect of alkali promoters on metal surfaces: K on Rh(111). <i>Catalysis Letters</i> , 1993 , 19, 263-272	2.8	13	
6	Geometric and Electronic Structure of Potassium on Rh(111). <i>Physica Scripta</i> , 1992 , T41, 208-212	2.6	17	
5	Xe adsorption on the Cu3Pt(111) surface. Surface Science, 1992, 269-270, 316-320	1.8	27	
4	The interaction of CO with the Cu3Pt(111) surface. Surface Science, 1992 , 269-270, 321-325	1.8	41	
3	Local effects in the interaction of potassium with Rh(111). Surface Science, 1992, 269-270, 664-668	1.8	12	
2	Surface chemical sensitivity of reflection electron energy loss spectra from metal surfaces. <i>Surface Science</i> , 1991 , 251-252, 243-247	1.8	4	
1	Xenon adsorption on Al(110). <i>Surface Science</i> , 1991 , 251-252, 551-555	1.8	12	