

Oliver KrÄjcher

List of Publications by Year in descending order

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papers

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docs citations

157
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	The State of the Art in Selective Catalytic Reduction of NO _x by Ammonia Using Metal-Exchanged Zeolite Catalysts. <i>Catalysis Reviews - Science and Engineering</i> , 2008, 50, 492-531.	12.9	758
2	Influence of NO ₂ on the selective catalytic reduction of NO with ammonia over Fe-ZSM5. <i>Applied Catalysis B: Environmental</i> , 2006, 67, 187-196.	20.2	282
3	Chemical deactivation of V ₂ O ₅ /WO ₃ -TiO ₂ SCR catalysts by additives and impurities from fuels, lubrication oils and urea solution. <i>Applied Catalysis B: Environmental</i> , 2008, 77, 228-236.	20.2	243
4	Screening of doped MnO _x -CeO ₂ catalysts for low-temperature NO-SCR. <i>Applied Catalysis B: Environmental</i> , 2009, 88, 413-419.	20.2	237
5	The Significance of Lewis Acid Sites for the Selective Catalytic Reduction of Nitric Oxide on Vanadium-Based Catalysts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11989-11994.	13.8	228
6	Catalytic oxidation of nitrogen monoxide over Pt/SiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2004, 50, 73-82.	20.2	205
7	The determination of the activities of different iron species in Fe-ZSM-5 for SCR of NO by NH ₃ . <i>Applied Catalysis B: Environmental</i> , 2010, 95, 348-357.	20.2	199
8	Stable complete methane oxidation over palladium based zeolite catalysts. <i>Nature Communications</i> , 2018, 9, 2545.	12.8	187
9	Time-resolved copper speciation during selective catalytic reduction of NO on Cu-SSZ-13. <i>Nature Catalysis</i> , 2018, 1, 221-227.	34.4	186
10	Chemical deactivation of V ₂ O ₅ /WO ₃ -TiO ₂ SCR catalysts by additives and impurities from fuels, lubrication oils, and urea solution. <i>Applied Catalysis B: Environmental</i> , 2008, 77, 215-227.	20.2	184
11	Silica Hybrid Gel Catalysts Containing Group(VIII) Transition Metal Complexes: Preparation, Structural, and Catalytic Properties in the Synthesis of N,N-Dimethylformamide and Methyl Formate from Supercritical Carbon Dioxide. <i>Journal of Catalysis</i> , 1998, 178, 284-298.	6.2	180
12	Investigation of the selective catalytic reduction of NO by NH ₃ on Fe-ZSM5 monolith catalysts. <i>Applied Catalysis B: Environmental</i> , 2006, 66, 208-216.	20.2	176
13	Flame-Made WO ₃ /CeO _x -TiO ₂ Catalysts for Selective Catalytic Reduction of NO _x by NH ₃ . <i>ACS Catalysis</i> , 2015, 5, 5657-5672.	11.2	171
14	The role of Brønsted acidity in the selective catalytic reduction of NO with ammonia over Fe-ZSM-5. <i>Journal of Catalysis</i> , 2009, 268, 297-306.	6.2	167
15	MnO _x -CeO ₂ mixed oxides for the low-temperature oxidation of diesel soot. <i>Applied Catalysis B: Environmental</i> , 2006, 64, 72-78.	20.2	160
16	Catalytic synthesis of polyoxymethylene dimethyl ethers (OME): A review. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 407-420.	20.2	148
17	Highly active ruthenium complexes with bidentate phosphine ligands for the solvent-free catalytic synthesis of N,N-dimethylformamide and methyl formate. <i>Chemical Communications</i> , 1997, , 453-454.	4.1	145
18	Characterization and catalytic investigation of Fe-ZSM5 for urea-SCR. <i>Catalysis Today</i> , 2007, 119, 137-144.	4.4	135

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19	Hydrolysis and thermolysis of urea and its decomposition byproducts biuret, cyanuric acid and melamine over anatase TiO ₂ . Applied Catalysis B: Environmental, 2012, 115-116, 129-137.	20.2	135
20	Characterization of Nb-Containing MnO _x /CeO ₂ Catalyst for Low-Temperature Selective Catalytic Reduction of NO with NH ₃ . Journal of Physical Chemistry C, 2010, 114, 9791-9801.	3.1	119
21	Recent progress in syngas production via catalytic CO ₂ hydrogenation reaction. Applied Catalysis B: Environmental, 2021, 295, 120319.	20.2	110
22	Hydrothermal deactivation of Fe-ZSM-5 catalysts for the selective catalytic reduction of NO with NH ₃ . Applied Catalysis B: Environmental, 2011, 101, 649-659.	20.2	103
23	Hydrolysis and oxidation of gaseous HCN over heterogeneous catalysts. Applied Catalysis B: Environmental, 2009, 92, 75-89.	20.2	100
24	VO _x Surface Coverage Optimization of V ₂ O ₅ /WO ₃ -TiO ₂ SCR Catalysts by Variation of the V Loading and by Aging. Catalysts, 2015, 5, 1704-1720.	3.5	82
25	Design of Stable Palladium-Based Zeolite Catalysts for Complete Methane Oxidation by Postsynthesis Zeolite Modification. ACS Catalysis, 2019, 9, 2303-2312.	11.2	82
26	CuAl Spinel as a Highly Active and Stable Catalyst for the Reverse Water Gas Shift Reaction. ACS Catalysis, 2019, 9, 6243-6251.	11.2	76
27	Adsorption and Desorption of SO _x on Diesel Oxidation Catalysts. Industrial & Engineering Chemistry Research, 2009, 48, 9847-9857.	3.7	73
28	Relationship between structures and activities of supported metal vanadates for the selective catalytic reduction of NO by NH ₃ . Applied Catalysis B: Environmental, 2017, 218, 731-742.	20.2	72
29	Sol-gel derived hybrid materials as heterogeneous catalysts for the synthesis of N,N-dimethylformamide from supercritical carbon dioxide. Chemical Communications, 1996, , 1497-1498.	4.1	67
30	DRIFTS studies on CO and NO adsorption and NO+CO reaction over Pd ²⁺ -substituted CeO ₂ and Ce _{0.75} Sn _{0.25} O ₂ catalysts. Journal of Catalysis, 2013, 303, 117-129.	6.2	67
31	Methane oxidation over a honeycomb Pd-only three-way catalyst under static and periodic operation. Applied Catalysis B: Environmental, 2018, 220, 67-77.	20.2	67
32	Adsorption and desorption of NO and NO ₂ on Cu-ZSM-5. Microporous and Mesoporous Materials, 2003, 58, 175-183.	4.4	66
33	Estimation of the fractions of different nuclear iron species in uniformly metal-exchanged Fe-ZSM-5 samples based on a Poisson distribution. Applied Catalysis A: General, 2010, 373, 168-175.	4.3	66
34	Catalytic urea hydrolysis in the selective catalytic reduction of NO _x : catalyst screening and kinetics on anatase TiO ₂ and ZrO ₂ . Catalysis Science and Technology, 2013, 3, 942-951.	4.1	64
35	Generation of NH ₃ Selective Catalytic Reduction Active Catalysts from Decomposition of Supported FeVO ₄ . ACS Catalysis, 2015, 5, 4180-4188.	11.2	64
36	A Niobia-Ceria based multi-purpose catalyst for selective catalytic reduction of NO _x , urea hydrolysis and soot oxidation in diesel exhaust. Applied Catalysis B: Environmental, 2011, 103, 79-84.	20.2	61

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37	Isocyanic acid hydrolysis over Fe-ZSM5 in urea-SCR. <i>Catalysis Communications</i> , 2006, 7, 600-603.	3.3	59
38	Combination of V ₂ O ₅ /WO ₃ -TiO ₂ , Fe-ZSM5, and Cu-ZSM5 Catalysts for the Selective Catalytic Reduction of Nitric Oxide with Ammonia. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 8588-8593.	3.7	59
39	A model gas study of ammonium formate, methanamide and guanidinium formate as alternative ammonia precursor compounds for the selective catalytic reduction of nitrogen oxides in diesel exhaust gas. <i>Applied Catalysis B: Environmental</i> , 2009, 88, 66-82.	20.2	59
40	Modulated Excitation Raman Spectroscopy of V ₂ O ₅ /TiO ₂ : Mechanistic Insights into the Selective Catalytic Reduction of NO with NH ₃ . <i>ACS Catalysis</i> , 2019, 9, 6814-6820.	11.2	56
41	Essential role of oxygen vacancies of Cu-Al and Co-Al spinel oxides in their catalytic activity for the reverse water gas shift reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118669.	20.2	56
42	Structural Reversibility and Nickel Particle stability in Lanthanum Iron Nickel Perovskite-type Catalysts. <i>ChemSusChem</i> , 2017, 10, 2505-2517.	6.8	52
43	Detection of key transient Cu intermediates in SSZ-13 during NH ₃ -SCR deNO _x by modulation excitation IR spectroscopy. <i>Chemical Science</i> , 2020, 11, 447-455.	7.4	52
44	Adsorption and hydrolysis of isocyanic acid on TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2006, 65, 55-61.	20.2	50
45	Basic investigation of the chemical deactivation of V ₂ O ₅ /WO ₃ -TiO ₂ SCR catalysts by potassium, calcium, and phosphate. <i>Topics in Catalysis</i> , 2007, 42-43, 333-336.	2.8	50
46	Effect of Structural and Preparation Parameters on the Activity and Hydrothermal Stability of Metal-Exchanged ZSM-5 in the Selective Catalytic Reduction of NO by NH ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 4308-4319.	3.7	50
47	Selectivity Control in Palladium-Catalyzed Alcohol Oxidation through Selective Blocking of Active Sites. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14027-14033.	3.1	50
48	Evaporation of Urea at Atmospheric Pressure. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2581-2589.	2.5	48
49	Storage of NO ₂ on BaO/TiO ₂ and the influence of NO. <i>Applied Catalysis B: Environmental</i> , 2003, 43, 389-395.	20.2	45
50	Subsecond and in Situ Chemical Speciation of Pt/Al ₂ O ₃ during Oxidation-Reduction Cycles Monitored by High-Energy Resolution Off-Resonant X-ray Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 19071-19074.	13.7	43
51	Catalytic Wall Reactor as a Tool for Isothermal Investigations in the Heterogeneously Catalyzed Oxidation of Propene to Acrolein. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 1445-1453.	3.7	41
52	Comparative analysis on the performance of pressure and air-assisted urea injection for selective catalytic reduction of NO _x . <i>Fuel</i> , 2015, 161, 269-277.	6.4	40
53	Selective Catalytic Reduction of NO with NH ₃ on Cu-SSZ-13: Deciphering the Low and High-temperature Rate-limiting Steps by Transient XAS Experiments. <i>ChemCatChem</i> , 2020, 12, 1429-1435.	3.7	39
54	Catalytic investigation of Fe-ZSM5 in the selective catalytic reduction of NO _x with NH ₃ . <i>Reaction Kinetics and Catalysis Letters</i> , 2005, 86, 347-354.	0.6	38

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55	Chapter 9 Aspects of catalyst development for mobile urea-SCR systems – From Vanadia-Titania catalysts to metal-exchanged zeolites. <i>Studies in Surface Science and Catalysis</i> , 2007, 171, 261-289.	1.5	38
56	Sulfur Poisoning Recovery on a Solid Oxide Fuel Cell Anode Material through Reversible Segregation of Nickel. <i>Chemistry of Materials</i> , 2019, 31, 748-758.	6.7	36
57	Silica hybrid gel catalysts containing ruthenium complexes: influence of reaction parameters on the catalytic behaviour in the synthesis of N,N-dimethylformamide from carbon dioxide. <i>Journal of Molecular Catalysis A</i> , 1999, 140, 185-193.	4.8	35
58	Deactivation Aspects of Methane Oxidation Catalysts Based on Palladium and ZSM-5. <i>Topics in Catalysis</i> , 2017, 60, 123-130.	2.8	34
59	Stable Palladium Oxide Clusters Encapsulated in Silicalite-1 for Complete Methane Oxidation. <i>ACS Catalysis</i> , 2021, 11, 7371-7382.	11.2	34
60	Deactivation and Regeneration of Sulfonated Carbon Catalysts in Hydrothermal Reaction Environments. <i>ChemSusChem</i> , 2018, 11, 2189-2201.	6.8	33
61	Influence of NO ₂ on the hydrolysis of isocyanic acid over TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2006, 65, 169-174.	20.2	32
62	Investigation of HNCO adsorption and hydrolysis on Fe-ZSM5. <i>Catalysis Letters</i> , 2007, 115, 33-39.	2.6	32
63	Modelling Catalyst Surfaces Using DFT Cluster Calculations. <i>International Journal of Molecular Sciences</i> , 2009, 10, 4310-4329.	4.1	30
64	Adsorption and catalytic thermolysis of gaseous urea on anatase TiO ₂ studied by HPLC analysis, DRIFT spectroscopy and DFT calculations. <i>Applied Catalysis B: Environmental</i> , 2013, 134-135, 316-323.	20.2	30
65	An ammonia and isocyanic acid measuring method for soot containing exhaust gases. <i>Analytica Chimica Acta</i> , 2005, 537, 393-400.	5.4	29
66	DFT calculations, DRIFT spectroscopy and kinetic studies on the hydrolysis of isocyanic acid on the TiO ₂ -anatase (101) surface. <i>Journal of Molecular Catalysis A</i> , 2008, 280, 68-80.	4.8	28
67	Prominent role of mesopore surface area and external acid sites for the synthesis of polyoxymethylene dimethyl ethers (OME) on a hierarchical H-ZSM-5 zeolite. <i>Catalysis Science and Technology</i> , 2019, 9, 366-376.	4.1	28
68	Manganese based materials for diesel exhaust SO ₂ traps. <i>Applied Catalysis B: Environmental</i> , 2006, 67, 160-167.	20.2	27
69	Silica xerogels containing bidentate phosphine ruthenium complexes: textural properties and catalytic behaviour in the synthesis of N,N-dimethylformamide from carbon dioxide. <i>Microporous and Mesoporous Materials</i> , 2000, 35-36, 181-193.	4.4	25
70	Laboratory test reactor for the investigation of liquid reducing agents in the selective catalytic reduction of NO _x . <i>Review of Scientific Instruments</i> , 2011, 82, 084101.	1.3	25
71	Thermal activation and aging of a V ₂ O ₅ /WO ₃ -TiO ₂ catalyst for the selective catalytic reduction of NO with NH ₃ . <i>Applied Catalysis A: General</i> , 2019, 573, 64-72.	4.3	25
72	Selective Catalytic Reduction of NO _x with Ammonia over Soot. <i>ACS Catalysis</i> , 2012, 2, 1507-1518.	11.2	24

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73	Engineering the ZrO ₂ –Pd Interface for Selective CO ₂ Hydrogenation by Overcoating an Atomically Dispersed Pd Precatalyst. ACS Catalysis, 2020, 10, 12058-12070.	11.2	24
74	Flexible application of biogas upgrading membranes for hydrogen recycle in power-to-methane processes. Chemical Engineering Science, 2021, 229, 116012.	3.8	24
75	Structure and performance of zeolite supported Pd for complete methane oxidation. Catalysis Today, 2021, 382, 3-12.	4.4	24
76	Operando Attenuated Total Reflectance FTIR Spectroscopy: Studies on the Different Selectivity Observed in Benzyl Alcohol Oxidation. ChemCatChem, 2015, 7, 2534-2541.	3.7	23
77	The Significance of Lewis Acid Sites for the Selective Catalytic Reduction of Nitric Oxide on Vanadium-Based Catalysts. Angewandte Chemie, 2016, 128, 12168-12173.	2.0	22
78	Selective Catalytic Reduction of NO _x . Catalysts, 2018, 8, 459.	3.5	22
79	Understanding the anomalous behavior of Vegard's law in Ce _{1-x} M _x O ₂ (M = Sn and Ti; 0 < x < 0.5) solid solutions. Physical Chemistry Chemical Physics, 2016, 18, 13974-13983.	2.8	21
80	Increasing the Sensitivity to Short-Lived Species in a Modulated Excitation Experiment. Analytical Chemistry, 2017, 89, 5801-5809.	6.5	21
81	Effect of SiO ₂ on co-impregnated V ₂ O ₅ /WO ₃ /TiO ₂ catalysts for the selective catalytic reduction of NO with NH ₃ . Catalysis Today, 2019, 320, 123-132.	4.4	21
82	HCN production from formaldehyde during the selective catalytic reduction of NO _x with NH ₃ over V ₂ O ₅ /WO ₃ -TiO ₂ . Applied Catalysis B: Environmental, 2021, 281, 119462.	20.2	21
83	DFT modeling of the hydrolysis of isocyanic acid over the TiO ₂ anatase (101) surface: Adsorption of HNCO species. Surface Science, 2006, 600, 5158-5167.	1.9	20
84	Influence of Potassium Doping on the Activity and the Sulfur Poisoning Resistance of Soot Oxidation Catalysts. Catalysis Letters, 2006, 109, 49-53.	2.6	20
85	Nature of Synergy between Brønsted and Lewis Acid Sites in Sn-Beta Zeolites for Polyoxymethylene Dimethyl Ethers Synthesis. ChemSusChem, 2019, 12, 4421-4431.	6.8	20
86	Water Inhibition of Oxymethylene Dimethyl Ether Synthesis over Zeolite H-Beta: A Combined Kinetic and <i>in Situ</i> ATR-IR Study. ACS Catalysis, 2020, 10, 8106-8119.	11.2	20
87	Decomposition of Urea in the SCR Process: Combination of DFT Calculations and Experimental Results on the Catalytic Hydrolysis of Isocyanic Acid on TiO ₂ and Al ₂ O ₃ . Topics in Catalysis, 2009, 52, 1740-1745.	2.8	19
88	Effect of Short Reducing Pulses on the Dynamic Structure, Activity, and Stability of Pd/Al ₂ O ₃ for Wet Lean Methane Oxidation. ACS Catalysis, 2021, 11, 4870-4879.	11.2	19
89	Materials for thermohydrolysis of urea in a fluidized bed. Chemical Engineering Journal, 2009, 152, 167-176.	12.7	17
90	High energy X-ray diffraction and IR spectroscopy of Pt/Al ₂ O ₃ during CO oxidation in a novel catalytic reactor cell. Journal of Lithic Studies, 2017, 3, 71-78.	0.5	17

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91	Increasing the activity of the Cu/CuAl ₂ O ₄ /Al ₂ O ₃ catalyst for the RWGS through preserving the Cu ²⁺ ions. Chemical Communications, 2021, 57, 1153-1156.	4.1	17
92	Synthesis and absolute stereostructure of dinaphth[2,1-c:1'â€²,2'â€²-e]oxepin-3-(5H)-one. Tetrahedron, 1994, 50, 2831-2840.	1.9	15
93	DFT study of structural and vibrational properties of guanidinium derivatives. Computational and Theoretical Chemistry, 2009, 907, 16-21.	1.5	15
94	Development of a 3rd Generation SCR NH ₃ -Direct Dosing System for Highly Efficient DeNOx. SAE International Journal of Engines, 0, 5, 938-946.	0.4	15
95	CO Methanation for Synthetic Natural Gas Production. Chimia, 2015, 69, 608.	0.6	15
96	Promotion of Ammonium Formate and Formic Acid Decomposition over Au/TiO ₂ by Support Basicity under SCR-Relevant Conditions. ACS Catalysis, 2015, 5, 4772-4782.	11.2	15
97	Reversible Segregation of Ni in LaFe _{0.8} Ni _{0.2} O ₃ ± Î During Coke Removal. ChemCatChem, 2018, 10, 4456-4464.	3.7	15
98	Ruthenium on phosphorous-modified alumina as an effective and stable catalyst for catalytic transfer hydrogenation of furfural. RSC Advances, 2020, 10, 11507-11516.	3.6	15
99	Transient simulation of NO _x reduction over a Fe-Zeolite catalyst in an NH ₃ -SCR system and study of the performance under different operating conditions. SAE International Journal of Fuels and Lubricants, 0, 5, 370-379.	0.2	14
100	Effect of ammonia on the decomposition of ammonium formate over Au/TiO ₂ under oxidizing conditions relevant to SCR: Enhancement of formic acid decomposition rate and CO ₂ production. Applied Catalysis A: General, 2014, 486, 219-229.	4.3	14
101	Selective synthesis of dimethyl ether on eco-friendly K10 montmorillonite clay. Applied Catalysis A: General, 2018, 560, 165-170.	4.3	14
102	Redox Dynamics of Active VO _x Sites Promoted by TiO _x during Oxidative Dehydrogenation of Ethanol Detected by Operando Quick XAS. JACS Au, 2022, 2, 762-776.	7.9	14
103	Quantification of Gaseous Urea by FT-IR Spectroscopy and Its Application in Catalytic Urea Thermolysis. Topics in Catalysis, 2013, 56, 130-133.	2.8	13
104	Design of a Reactor Cell for Modulated Excitation Raman and Diffuse Reflectance Studies of Selective Catalytic Reduction Catalysts. Emission Control Science and Technology, 2019, 5, 307-316.	1.5	13
105	Increased nickel exsolution from LaFe _{0.8} Ni _{0.2} O ₃ perovskite-derived CO ₂ methanation catalysts through strontium doping. Applied Catalysis A: General, 2020, 590, 117328.	4.3	13
106	One-pot synthesis of highly dispersed mesoporous Cu/ZrO ₂ catalysts for NH ₃ -SCR. Catalysis Today, 2022, 384-386, 113-121.	4.4	13
107	Guanidinium Formate Decomposition on the (101) TiO ₂ -Anatase Surface: Combined Minimum Energy Reaction Pathway Calculations and Temperature-Programmed Decomposition Experiments. Journal of Physical Chemistry C, 2011, 115, 1195-1203.	3.1	12
108	Acidic Zirconia Mixed Oxides for NH ₃ -SCR Catalysts for PC and HD Applications. , 0, .		12

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109	WO _x /CeO ₂ /TiO ₂ Catalysts for Selective Catalytic Reduction of NO _x by NH ₃ : Effect of the Synthesis Method. <i>Chimia</i> , 2015, 69, 220.	0.6	12
110	An operando emission spectroscopy study of Pt/Al ₂ O ₃ and Pt/CeO ₂ /Al ₂ O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29268-29277.	2.8	12
111	Reaction pathways of methane abatement in Pd-Rh three-way catalyst in heavy duty applications: A combined approach based on exhaust analysis, model gas reactor and DRIFTS measurements. <i>Chemical Engineering Journal</i> , 2021, 422, 129932.	12.7	12
112	Techno-economic assessment of bioethanol production from lignocellulose by consortium-based consolidated bioprocessing at industrial scale. <i>New Biotechnology</i> , 2021, 65, 53-60.	4.4	12
113	<i>In situ</i> spectroscopic studies of the effect of water on the redox cycle of Cu ions in Cu-SSZ-13 during selective catalytic reduction of NO _x . <i>Chemical Communications</i> , 2022, 58, 6610-6613.	4.1	12
114	Determination of Effective Diffusion Coefficients through the Walls of Coated Diesel Particulate Filters. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 10746-10750.	3.7	11
115	Development of a TG-FTIR system for investigations with condensable and corrosive gases. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 545-552.	3.6	11
116	Active Sites, Deactivation and Stabilization of Fe-ZSM-5 for the Selective Catalytic Reduction (SCR) of NO with NH ₃ . <i>Chimia</i> , 2012, 66, 687-693.	0.6	11
117	Pre-Turbo Scr - Influence of Pressure on NO _x Reduction. <i>MTZ Worldwide</i> , 2014, 75, 46-51.	0.1	11
118	Structural Modification of Ni ₃ Al ₂ O ₃ with Boron for Enhanced Carbon Resistance during CO Methanation. <i>ChemCatChem</i> , 2015, 7, 3261-3265.	3.7	11
119	Water-assisted oxygen activation during gold-catalyzed formic acid decomposition under SCR-relevant conditions. <i>Journal of Catalysis</i> , 2017, 349, 197-207.	6.2	11
120	Poisoning of Mn-Ce/AC catalysts for low-temperature NH ₃ -SCR of NO by K ⁺ and its counter-ions (Cl ⁻ /NO ₃ ⁻ /SO ₄ ²⁻). <i>Applied Catalysis A: General</i> , 2022, 638, 118636.	4.3	11
121	Synthesis of N,N-dimethylformamide by heterogeneous catalytic hydrogenation of supercritical carbon dioxide. <i>Process Technol</i> , 1996, , 91-96.	0.1	10
122	Theoretical studies of HNCO adsorption at stabilized iron complexes in the ZSM-5 framework. <i>Microporous and Mesoporous Materials</i> , 2013, 169, 97-102.	4.4	10
123	Mitigation of Secondary Organic Aerosol Formation from Log Wood Burning Emissions by Catalytic Removal of Aromatic Hydrocarbons. <i>Environmental Science & Technology</i> , 2018, 52, 13381-13390.	10.0	10
124	Investigating active phase loss from supported ruthenium catalysts during supercritical water gasification. <i>Catalysis Science and Technology</i> , 2021, 11, 7431-7444.	4.1	10
125	The influence of H ₂ SO ₄ on soot oxidation with NO ₂ . <i>Carbon</i> , 2012, 50, 2100-2109.	10.3	9
126	Hydrothermally Stable WO ₃ /ZrO ₂ –Ce _{0.6} Zr _{0.4} O ₂ Catalyst for the Selective Catalytic Reduction of NO with NH ₃ . <i>Topics in Catalysis</i> , 2013, 56, 23-28.	2.8	9

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127	Insights into the Nature of the Active Sites of Tin-Montmorillonite for the Synthesis of Polyoxymethylene Dimethyl Ethers (OME). <i>ChemCatChem</i> , 2019, 11, 3010-3021.	3.7	9
128	On the relevance of P poisoning in real-world DOC aging. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120062.	20.2	9
129	Understanding the impact of poison distribution on the performance of Diesel oxidation catalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120684.	20.2	8
130	Operando diffuse reflectance infrared detection of cyanide intermediate species during the reaction of formaldehyde with ammonia over V ₂ O ₅ /WO ₃ -TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120629.	20.2	8
131	Measurement of Vanadium Emissions from SCR Catalysts by ICP-OES: Method Development and First Results. <i>Emission Control Science and Technology</i> , 2015, 1, 292-297.	1.5	7
132	Reduction of PdO/Al ₂ O ₃ in Liquid Cyclohexane Followed <i>In Situ</i> by ATR-IR, High-Energy XRD, and XAS. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16473-16482.	3.1	7
133	Calibration of a model for selective catalytic reduction with ammonia, including NO oxidation, and simulation of NO _x reduction over an Fe-zeolite catalyst under highly transient conditions. <i>International Journal of Engine Research</i> , 2013, 14, 107-121.	2.3	6
134	Harnstoffhydrolyse für die selektive katalytische Reduktion von NO _x : Vergleich der flüssig- und Gasphasenzersetzung. <i>Chemie-Ingenieur-Technik</i> , 2013, 85, 625-631.	0.8	6
135	Ammonia Storage and Release in SCR Systems for Mobile Applications. <i>Fundamental and Applied Catalysis</i> , 2014, , 485-506.	0.9	6
136	Ammonium formate decomposition over Au/TiO ₂ : a unique case of preferential selectivity against NH ₃ oxidation. <i>Chemical Communications</i> , 2014, 50, 6998-7000.	4.1	6
137	Mechanochemistry-assisted hydrolysis of softwood over stable sulfonated carbon catalysts in a semi-batch process. <i>RSC Advances</i> , 2019, 9, 33525-33538.	3.6	6
138	Mechanistic implications of lanthanum-modification on gold-catalyzed formic acid decomposition under SCR-relevant conditions. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 709-718.	20.2	6
139	Restructuring Ni/Al ₂ O ₃ by addition of Ga to shift product selectivity in CO ₂ hydrogenation: The role of hydroxyl groups. <i>Journal of CO₂ Utilization</i> , 2022, 57, 101881.	6.8	6
140	Interconversion between Lewis and Brønsted-Lowry acid sites on vanadia-based catalysts. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4555-4561.	2.8	6
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