Charles H F Peden

List of Publications by Year
in descending order

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160	18,047	13865 67	12946 131
papers	citations	h-index	g-index

165	165	165	14454
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Remarkable self-degradation of Cu/SAPO-34 selective catalytic reduction catalysts during storage at ambient conditions. Catalysis Today, 2021, 360, 367-374.	4.4	18
2	Revisiting effects of alkali metal and alkaline earth co-cation additives to Cu/SSZ-13 selective catalytic reduction catalysts. Journal of Catalysis, 2019, 378, 363-375.	6.2	59
3	Using Transient FTIR Spectroscopy to Probe Active Sites and Reaction Intermediates for Selective Catalytic Reduction of NO on Cu/SSZ-13 Catalysts. ACS Catalysis, 2019, 9, 6137-6145.	11.2	105
4	Cu/Chabazite catalysts for â€˜Lean-Burnâ€™ vehicle emission control. Journal of Catalysis, 2019, 373, 384-389.	6.2	40
5	Structural Intergrowth in Î´-Al₂O₃. Journal of Physical Chemistry C, 2019, 123, 9454-9460.	3.1	14
6	Unraveling the mysterious failure of Cu/SAPO-34 selective catalytic reduction catalysts. Nature Communications, 2019, 10, 1137.	12.8	99
7	NH3-SCR on Cu, Fe and Cu + Fe exchanged beta and SSZ-13 catalysts: Hydrothermal aging and propylene poisoning effects. Catalysis Today, 2019, 320, 91-99.	4.4	90
8	Formation of NO+ and its possible roles during the selective catalytic reduction of NOx with NH3 on Cu-CHA catalysts. Catalysis Today, 2019, 320, 61-71.	4.4	32
9	Where Does the Sulphur Go? Deactivation of a Low Temperature CO Oxidation Catalyst by Sulphur Poisoning. Catalysis Letters, 2018, 148, 1445-1450.	2.6	3
10	Improved thermal stability of a copper-containing ceria-based catalyst for low temperature CO oxidation under simulated diesel exhaust conditions. Catalysis Science and Technology, 2018, 8, 1383-1394.	4.1	20
11	Catalytic N2O decomposition and reduction by NH3 over Fe/Beta and Fe/SSZ-13 catalysts. Journal of Catalysis, 2018, 358, 199-210.	6.2	80
12	Recent Progress in Atomic-Level Understanding of Cu/SSZ-13 Selective Catalytic Reduction Catalysts. Catalysts, 2018, 8, 140.	3.5	91
13	Ambient-temperature NO oxidation over amorphous CrOx-ZrO2 mixed oxide catalysts: Significant promoting effect of ZrO2. Applied Catalysis B: Environmental, 2017, 202, 706-714.	20.2	60
14	Transformation of Active Sites in Fe/SSZ-13 SCR Catalysts during Hydrothermal Aging: A Spectroscopic, Microscopic, and Kinetics Study. ACS Catalysis, 2017, 7, 2458-2470.	11.2	89
15	Ambient temperature NO oxidation over Cr-based amorphous mixed oxide catalysts: effects from the second oxide components. Catalysis Science and Technology, 2017, 7, 2362-2370.	4.1	27
16	Selective Catalytic Reduction over Cu/SSZ-13: Linking Homo- and Heterogeneous Catalysis. Journal of the American Chemical Society, 2017, 139, 4935-4942.	13.7	380
17	New insights into Cu/SSZ-13 SCR catalyst acidity. Part I: Nature of acidic sites probed by NH3 titration. Journal of Catalysis, 2017, 348, 291-299.	6.2	233
18	Toward Rational Design of Cu/SSZ-13 Selective Catalytic Reduction Catalysts: Implications from Atomic-Level Understanding of Hydrothermal Stability. ACS Catalysis, 2017, 7, 8214-8227.	11.2	278

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19	Sub-micron Cu/SSZ-13: Synthesis and application as selective catalytic reduction (SCR) catalysts. Applied Catalysis B: Environmental, 2017, 201, 461-469.	20.2	101
20	Iron Loading Effects in Fe/SSZ-13 NH₃-SCR Catalysts: Nature of the Fe Ions and Structureâ€“Function Relationships. ACS Catalysis, 2016, 6, 2939-2954.	11.2	126
21	Virtual Special Issue on Catalysis at the U.S. Department of Energyâ€™s National Laboratories. ACS Catalysis, 2016, 6, 3227-3235.	11.2	2
22	Hydrothermal Aging Effects on Fe/SSZ-13 and Fe/Beta NH3â€“SCR Catalysts. Topics in Catalysis, 2016, 59, 882-886.	2.8	26
23	Characterization of Fe²⁺ ions in Fe,H/SSZ-13 zeolites: FTIR spectroscopy of CO and NO probe molecules. Physical Chemistry Chemical Physics, 2016, 18, 10473-10485.	2.8	25
24	High field 27Al MAS NMR and TPD studies of active sites in ethanol dehydration using thermally treated transitional aluminas as catalysts. Journal of Catalysis, 2016, 336, 85-93.	6.2	47
25	NO oxidation on zeolite supported Cu catalysts: Formation and reactivity of surface nitrates. Catalysis Today, 2016, 267, 17-27.	4.4	39
26	Modification of the acid/base properties of Î³-Al2O3 by oxide additives: An ethanol TPD investigation. Catalysis Today, 2016, 265, 240-244.	4.4	16
27	Performance and properties of K and TiO2 based LNT catalysts. Applied Catalysis B: Environmental, 2016, 181, 862-873.	20.2	7
28	Surface-Bound Intermediates in Low-Temperature Methanol Synthesis on Copper: Participants and Spectators. ACS Catalysis, 2015, 5, 7328-7337.	11.2	77
29	A comparative kinetics study between Cu/SSZ-13 and Fe/SSZ-13 SCR catalysts. Catalysis Today, 2015, 258, 347-358.	4.4	94
30	A comparative study of N2O formation during the selective catalytic reduction of NOx with NH3 on zeolite supported Cu catalysts. Journal of Catalysis, 2015, 329, 490-498.	6.2	115
31	Advantages of MgAlO_x over Î³-Al₂O₃ as a Support Material for Potassium-Based High-Temperature Lean NO_x Traps. ACS Catalysis, 2015, 5, 4680-4689.	11.2	15
32	Effect of Oxygen Defects on the Catalytic Performance of VO_x/CeO₂ Catalysts for Oxidative Dehydrogenation of Methanol. ACS Catalysis, 2015, 5, 3006-3012.	11.2	96
33	Unraveling the Origin of Structural Disorder in High Temperature Transition Al₂O₃: Structure of Î¸-Al₂O₃. Chemistry of Materials, 2015, 27, 7042-7049.	6.7	51
34	Effects of Alkali and Alkaline Earth Cocations on the Activity and Hydrothermal Stability of Cu/SSZ-13 NH₃â€“SCR Catalysts. ACS Catalysis, 2015, 5, 6780-6791.	11.2	235
35	Effects of Si/Al ratio on Cu/SSZ-13 NH3-SCR catalysts: Implications for the active Cu species and the roles of BrÃ¸nsted acidity. Journal of Catalysis, 2015, 331, 25-38.	6.2	341
36	Investigation of Aluminum Site Changes of Dehydrated Zeolite H-Beta during a Rehydration Process by High-Field Solid-State NMR. Journal of Physical Chemistry C, 2015, 119, 1410-1417.	3.1	63

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37	Synthesis and evaluation of Cu/SAPO-34 catalysts for NH3-SCR 2: Solid-state ion exchange and one-pot synthesis. Applied Catalysis B: Environmental, 2015, 162, 501-514.	20.2	166
38	Fe/SSZ-13 as an NH3-SCR catalyst: A reaction kinetics and FTIR/MÃ¶ssbauer spectroscopic study. Applied Catalysis B: Environmental, 2015, 164, 407-419.	20.2	108
39	Following the movement of Cu ions in a SSZ-13 zeolite during dehydration, reduction and adsorption: A combined in situ TP-XRD, XANES/DRIFTS study. Journal of Catalysis, 2014, 314, 83-93.	6.2	131
40	Selective Catalytic Reduction of NO_x with NH₃ over a Cuâ€SSZâ€13 Catalyst Prepared by a Solidâ€State Ionâ€Exchange Method. ChemCatChem, 2014, 6, 1579-1583.	3.7	101
41	Effects of CeO2 support facets on VOx/CeO2 catalysts in oxidative dehydrogenation of methanol. Journal of Catalysis, 2014, 315, 15-24.	6.2	66
42	Understanding ammonia selective catalytic reduction kinetics over Cu/SSZ-13 from motion of the Cu ions. Journal of Catalysis, 2014, 319, 1-14.	6.2	307
43	Structure of Î´-Alumina: Toward the Atomic Level Understanding of Transition Alumina Phases. Journal of Physical Chemistry C, 2014, 118, 18051-18058.	3.1	72
44	Effect of H₂O on the Morphological Changes of KNO₃ Formed on K₂O/Al₂O₃ NO_x Storage Materials: Fourier Transform Infrared and Time-Resolved X-ray Diffraction Studies. Journal of Physical Chemistry C, 2014, 118, 4189-4197.	3.1	14
45	A General Mechanism for Stabilizing the Small Sizes of Precious Metal Nanoparticles on Oxide Supports. Chemistry of Materials, 2014, 26, 5475-5481.	6.7	53
46	Low-temperature carbon monoxide oxidation catalysed by regenerable atomically dispersed palladium on alumina. Nature Communications, 2014, 5, 4885.	12.8	498
47	NO Chemisorption on Cu/SSZ-13: A Comparative Study from Infrared Spectroscopy and DFT Calculations. ACS Catalysis, 2014, 4, 4093-4105.	11.2	139
48	Effects of potassium loading and thermal aging on K/Pt/Al2O3 high-temperature lean NOx trap catalysts. Catalysis Today, 2014, 231, 164-172.	4.4	21
49	In situ DRIFTS-MS studies on the oxidation of adsorbed NH3 by NO over a Cu-SSZ-13 zeolite. Catalysis Today, 2013, 205, 16-23.	4.4	158
50	Synthesis and Evaluation of Cu-SAPO-34 Catalysts for Ammonia Selective Catalytic Reduction. 1. Aqueous Solution Ion Exchange. ACS Catalysis, 2013, 3, 2083-2093.	11.2	168
51	Effect of K loadings on nitrate formation/decomposition and on NOx storage performance of K-based NOx storage-reduction catalysts. Applied Catalysis B: Environmental, 2013, 142-143, 472-478.	20.2	21
52	Stable platinum nanoparticles on specific MgAl2O4 spinel facets at high temperatures in oxidizing atmospheres. Nature Communications, 2013, 4, 2481.	12.8	166
53	Characterization of Cu-SSZ-13 NH3 SCR catalysts: an in situ FTIR study. Physical Chemistry Chemical Physics, 2013, 15, 2368.	2.8	142
54	Frontiers, Opportunities, and Challenges in Biochemical and Chemical Catalysis of CO₂ Fixation. Chemical Reviews, 2013, 113, 6621-6658.	47.7	1,786

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55	Structureâ€“activity relationships in NH3-SCR over Cu-SSZ-13 as probed by reaction kinetics and EPR studies. Journal of Catalysis, 2013, 300, 20-29.	6.2	409
56	Cation Movements during Dehydration and NO₂ Desorption in a Baâ€“Y,FAU Zeolite: An in Situ Time-Resolved X-ray Diffraction Study. Journal of Physical Chemistry C, 2013, 117, 3915-3922.	3.1	36
57	Tomography and High-Resolution Electron Microscopy Study of Surfaces and Porosity in a Plate-like Î³-Al₂O₃. Journal of Physical Chemistry C, 2013, 117, 179-186.	3.1	81
58	Current Understanding of Cu-Exchanged Chabazite Molecular Sieves for Use as Commercial Diesel Engine DeNOx Catalysts. Topics in Catalysis, 2013, 56, 1441-1459.	2.8	297
59	Effect of Sodium on the Catalytic Properties of VO_x/CeO₂ Catalysts for Oxidative Dehydrogenation of Methanol. Journal of Physical Chemistry C, 2013, 117, 5722-5729.	3.1	25
60	A Common Intermediate for N₂ Formation in Enzymes and Zeolites: Sideâ€On Cuâ€“Nitrosyl Complexes. Angewandte Chemie - International Edition, 2013, 52, 9985-9989.	13.8	94
61	Effect of sulfur loading on the desulfation chemistry of a commercial lean NOx trap catalyst. Catalysis Today, 2012, 197, 3-8.	4.4	11
62	A large sample volume magic angle spinning nuclear magnetic resonance probe for in situ investigations with constant flow of reactants. Physical Chemistry Chemical Physics, 2012, 14, 2137-2143.	2.8	20
63	Highly Dispersed and Active ReO_x on Alumina-Modified SBA-15 Silica for 2-Butanol Dehydration. ACS Catalysis, 2012, 2, 1020-1026.	11.2	22
64	Size-Dependent Catalytic Performance of CuO on Î³-Al₂O₃: NO Reduction versus NH₃ Oxidation. ACS Catalysis, 2012, 2, 1432-1440.	11.2	75
65	Two different cationic positions in Cu-SSZ-13?. Chemical Communications, 2012, 48, 4758.	4.1	350
66	Well-studied Cuâ€“BTC still serves surprises: evidence for facile Cu2+/Cu+ interchange. Physical Chemistry Chemical Physics, 2012, 14, 4383.	2.8	91
67	The Effect of Copper Loading on the Selective Catalytic Reduction of Nitric Oxide by Ammonia Over Cu-SSZ-13. Catalysis Letters, 2012, 142, 295-301.	2.6	186
68	Enhanced High Temperature Performance of MgAl2O4-Supported Ptâ€“BaO Lean NOx Trap Catalysts. Topics in Catalysis, 2012, 55, 70-77.	2.8	12
69	Synthesis of butenes through 2-butanol dehydration over mesoporous materials produced from ferrierite. Catalysis Today, 2012, 185, 191-197.	4.4	25
70	Thermal durability of Cu-CHA NH3-SCR catalysts for diesel NO reduction. Catalysis Today, 2012, 184, 252-261.	4.4	245
71	Possible origin of improved high temperature performance of hydrothermally aged Cu/beta zeolite catalysts. Catalysis Today, 2012, 184, 245-251.	4.4	35
72	Deactivation mechanisms of Pt/Pd-based diesel oxidation catalysts. Catalysis Today, 2012, 184, 197-204.	4.4	86

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73	Characteristics of Ptâ€“K/MgAl2O4 lean NOx trap catalysts. Catalysis Today, 2012, 184, 2-7.	4.4	27
74	Isothermal desulfation of pre-sulfated Pt-BaO/Î³-Al2O3 lean NOx trap catalysts with H2: The effect of H2 concentration and the roles of CO2 and H2O. Applied Catalysis B: Environmental, 2012, 111-112, 342-348.	20.2	11
75	Effects of hydrothermal aging on NH3-SCR reaction over Cu/zeolites. Journal of Catalysis, 2012, 287, 203-209.	6.2	438
76	Using a Surface-Sensitive Chemical Probe and a Bulk Structure Technique to Monitor the Î³- to Î¸-Al₂O₃ Phase Transformation. Journal of Physical Chemistry C, 2011, 115, 12575-12579.	3.1	37
77	Characterizing Surface Acidic Sites in Mesoporous-Silica-Supported Tungsten Oxide Catalysts Using Solid-State NMR and Quantum Chemistry Calculations. Journal of Physical Chemistry C, 2011, 115, 23354-23362.	3.1	11
78	Solvent Evaporation Assisted Preparation of Oriented Nanocrystalline Mesoporous MFI Zeolites. ACS Catalysis, 2011, 1, 682-690.	11.2	67
79	Direct Conversion of Bio-ethanol to Isobutene on Nanosized Zn_xZr_yO_z Mixed Oxides with Balanced Acidâ€“Base Sites. Journal of the American Chemical Society, 2011, 133, 11096-11099.	13.7	225
80	Insight into methanol synthesis from CO2 hydrogenation on Cu(111): Complex reaction network and the effects of H2O. Journal of Catalysis, 2011, 281, 199-211.	6.2	347
81	Effect of reductive treatments on Pt behavior and NOx storage in lean NOx trap catalysts. Catalysis Today, 2011, 175, 78-82.	4.4	4
82	Regeneration of field-spent activated carbon catalysts for low-temperature selective catalytic reduction of NOx with NH3. Chemical Engineering Journal, 2011, 174, 242-248.	12.7	25
83	The Origin of Regioselectivity in 2â€Butanol Dehydration on Solid Acid Catalysts. ChemCatChem, 2011, 3, 1557-1561.	3.7	30
84	(100) facets of Î³-Al2O3: The Active Surfaces for Alcohol Dehydration Reactions. Catalysis Letters, 2011, 141, 649-655.	2.6	105
85	Excellent activity and selectivity of Cu-SSZ-13 in the selective catalytic reduction of NOx with NH3. Journal of Catalysis, 2010, 275, 187-190.	6.2	674
86	Catalyst size and morphological effects on the interaction of NO2 with BaO/Î³-Al2O3 materials. Catalysis Today, 2010, 151, 304-313.	4.4	8
87	The different impacts of SO2 and SO3 on Cu/zeolite SCR catalysts. Catalysis Today, 2010, 151, 266-270.	4.4	96
88	Unique Role of Anchoring Penta-Coordinated Al³⁺ Sites in the Sintering of Î³-Al₂O₃-Supported Pt Catalysts. Journal of Physical Chemistry Letters, 2010, 1, 2688-2691.	4.6	101
89	Effect of Produced HCl during the Catalysis on Micro- and Mesoporous MOFs. Crystal Growth and Design, 2010, 10, 4118-4122.	3.0	15
90	Micro and mesoporous metalâ€“organic frameworks for catalysis applications. Dalton Transactions, 2010, 39, 1692-1694.	3.3	71

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91	Coordinatively Unsaturated Al ³⁺ Centers as Binding Sites for Active Catalyst Phases of Platinum on Î³-Al ₂ O ₃. Science, 2009, 325, 1670-1673.	12.6	790
92	Understanding the nature of surface nitrates in BaO/Î³-Al2O3 NOx storage materials: A combined experimental and theoretical study. Journal of Catalysis, 2009, 261, 17-22.	6.2	79
93	Promotional Effect of CO2 on Desulfation Processes for Pre-Sulfated Pt-BaO/Al2O3 Lean NOx Trap Catalysts. Topics in Catalysis, 2009, 52, 1719-1722.	2.8	3
94	An isotropic chemical shiftâ€“chemical shift anisotropic correlation experiment using discrete magic angle turning. Journal of Magnetic Resonance, 2009, 198, 105-110.	2.1	2
95	Effects of Sulfation Level on the Desulfation Behavior of Presulfated Pt-BaO/Al₂O₃ Lean NO_x Trap Catalysts: A Combined H₂ Temperature-Programmed Reaction, in Situ Sulfur K-Edge X-ray Absorption Near-Edge Spectroscopy, X-ray Photoelectron Spectroscopy, and Time-Resolved X-ray Diffraction Study. Journal of Physical Chemistry C, 2009, 113, 7336-7341.	3.1	17
96	Characterization of Dispersed Heteropoly Acid on Mesoporous Zeolite Using Solid-State ³¹P NMR Spinâ^'Lattice Relaxation. Journal of the American Chemical Society, 2009, 131, 9715-9721.	13.7	42
97	Characteristics of Desulfation Behavior for Presulfated Pt-BaO/CeO2 Lean NOx Trap Catalyst: The Role of the CeO2 Support. Journal of Physical Chemistry C, 2009, 113, 21123-21129.	3.1	14
98	Studies of the Active Sites for Methane Dehydroaromatization Using Ultrahigh-Field Solid-State 95Mo NMR Spectroscopy. Journal of Physical Chemistry C, 2009, 113, 2936-2942.	3.1	29
99	First-Principles Analysis of NO_x Adsorption on Anhydrous Î³-Al₂O₃ Surfaces. Journal of Physical Chemistry C, 2009, 113, 7779-7789.	3.1	28
100	Characterization of surface and bulk nitrates of Î³-Al2O3â€“supported alkaline earth oxides using density functional theory. Physical Chemistry Chemical Physics, 2009, 11, 3380.	2.8	10
101	Promotional Effects of H2O Treatment on NO x Storage Over Fresh and Thermally Aged Ptâ€“BaO/Al2O3 Lean NO x Trap Catalysts. Catalysis Letters, 2008, 124, 39-45.	2.6	13
102	Effects of Novel Supports on the Physical and Catalytic Properties of Tungstophosphoric Acid for Alcohol Dehydration Reactions. Topics in Catalysis, 2008, 49, 259-267.	2.8	24
103	Sequential high temperature reduction, low temperature hydrolysis for the regeneration of sulfated NOx trap catalysts. Catalysis Today, 2008, 136, 183-187.	4.4	10
104	NOx uptake on alkaline earth oxides (BaO, MgO, CaO and SrO) supported on Î³-Al2O3. Catalysis Today, 2008, 136, 121-127.	4.4	27
105	NMR studies of Cu/zeolite SCR catalysts hydrothermally aged with urea. Catalysis Today, 2008, 136, 34-39.	4.4	35
106	Title is missing!. Catalysis Today, 2008, 136, 1-2.	4.4	4
107	Excellent sulfur resistance of Pt/BaO/CeO2 lean NOx trap catalysts. Applied Catalysis B: Environmental, 2008, 84, 545-551.	20.2	55
108	Role of Pentacoordinated Al³⁺ Ions in the High Temperature Phase Transformation of Î³-Al₂O₃. Journal of Physical Chemistry C, 2008, 112, 9486-9492.	3.1	106

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109	Carbonate Formation and Stability on a Pt/BaO/Î³-Al2O3 NOX Storage/Reduction Catalyst. Journal of Physical Chemistry C, 2008, 112, 10952-10959.	3.1	47
110	Roles of Pt and BaO in the Sulfation of Pt/BaO/Al₂O₃ Lean NO_x Trap Materials:â€‰ Sulfur K-edge XANES and Pt L_{III} XAFS Studies. Journal of Physical Chemistry C, 2008, 112, 2981-2987.	3.1	17
111	Adsorption and Formation of BaO Overlayers on Î³-Al₂O₃ Surfaces. Journal of Physical Chemistry C, 2008, 112, 18050-18060.	3.1	29
112	Direct Observation of the Active Center for Methane Dehydroaromatization Using an Ultrahigh Field ⁹⁵Mo NMR Spectroscopy. Journal of the American Chemical Society, 2008, 130, 3722-3723.	13.7	134
113	Grafting sulfated zirconia on mesoporous silica. Green Chemistry, 2007, 9, 540.	9.0	23
114	Effect of H2O on the Adsorption of NO2on Î³-Al2O3:â€‰ an in Situ FTIR/MS Study. Journal of Physical Chemistry C, 2007, 111, 2661-2669.	3.1	97
115	Water-induced morphology changes in BaO/Î³-Al2O3NOxstorage materials. Chemical Communications, 2007, , 984-986.	4.1	13
116	Understanding Practical Catalysts Using a Surface Science Approach:â€‰ The Importance of Strong Interaction between BaO and Al₂O₃ in NO_x Storage Materials. Journal of Physical Chemistry C, 2007, 111, 14942-14944.	3.1	32
117	Design of a Reaction Protocol for Decoupling Sulfur Removal and Thermal Aging Effects during Desulfation of Ptâ^'BaO/Al2O3 Lean NOx Trap Catalysts. Industrial & Engineering Chemistry Research, 2007, 46, 2735-2740.	3.7	11
118	Water-Induced Morphology Changes in BaO/Î³-Al2O3NOxStorage Materials:â€‰ an FTIR, TPD, and Time-Resolved Synchrotron XRD Study. Journal of Physical Chemistry C, 2007, 111, 4678-4687.	3.1	35
119	Oxidation of ethanol to acetaldehyde over Na-promoted vanadium oxide catalysts. Applied Catalysis A: General, 2007, 332, 263-272.	4.3	36
120	Penta-coordinated Al3+ ions as preferential nucleation sites for BaO on Î³-Al2O3: An ultra-high-magnetic field 27Al MAS NMR study. Journal of Catalysis, 2007, 251, 189-194.	6.2	173
121	Water-induced bulk Ba(NO3)2 formation from NO2 exposed thermally aged BaO/Al2O3. Applied Catalysis B: Environmental, 2007, 72, 233-239.	20.2	39
122	Ba Deposition and Oxidation on Î¸-Al2O3/NiAl(100) Ultrathin Films. Part I:â€‰ Anaerobic Deposition Conditions. Journal of Physical Chemistry B, 2006, 110, 17001-17008.	2.6	27
123	Low Temperature H2O and NO2 Coadsorption on Î¸-Al2O3/NiAl(100) Ultrathin Films. Journal of Physical Chemistry B, 2006, 110, 8025-8034.	2.6	27
124	Ba Deposition and Oxidation on Î¸-Al2O3/NiAl(100) Ultrathin Films. Part II:â€‰ O2(g) Assisted Ba Oxidation. Journal of Physical Chemistry B, 2006, 110, 17009-17014.	2.6	27
125	Effect of Barium Loading on the Desulfation of Pt-BaO/Al2O3Studied by H2TPRX, TEM, Sulfur K-edge XANES, and in Situ TR-XRD. Journal of Physical Chemistry B, 2006, 110, 10441-10448.	2.6	30
126	Relationship of Pt Particle Size to the NOxStorage Performance of Thermally Aged Pt/BaO/Al2O3Lean NOxTrap Catalysts. Industrial & Engineering Chemistry Research, 2006, 45, 8815-8821.	3.7	51

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127	Fractional Factorial Study of HCN Removal over a 0.5% Pt/Al2O3 Catalyst:â€‰ Effects of Temperature, Gas Flow Rate, and Reactant Partial Pressure. Industrial & Engineering Chemistry Research, 2006, 45, 934-939.	3.7	19
128	Characterization of NOx species in dehydrated and hydrated Na- and Ba-Y, FAU zeolites formed in NO2 adsorption. Journal of Electron Spectroscopy and Related Phenomena, 2006, 150, 164-170.	1.7	19
129	Effects of Ba loading and calcination temperature on BaAl2O4 formation for BaO/Al2O3 NOx storage and reduction catalysts. Catalysis Today, 2006, 114, 86-93.	4.4	70
130	Synthesis of nanodispersed oxides of vanadium, titanium, molybdenum, and tungsten on mesoporous silica using atomic layer deposition. Topics in Catalysis, 2006, 39, 245-255.	2.8	43
131	Non-thermal Plasma-assisted NOx Reduction over Na-Y Zeolites: The Promotional Effect of Acid Sites. Catalysis Letters, 2006, 109, 1-6.	2.6	19
132	NO x uptake mechanism on Pt/BaO/Al2O3 catalysts. Catalysis Letters, 2006, 111, 119-126.	2.6	46
133	Synthesis, characterization, and catalytic function of novel highly dispersed tungsten oxide catalysts on mesoporous silica. Journal of Catalysis, 2006, 239, 200-211.	6.2	130
134	Catalytic oxidation of HCN over a 0.5% Pt/Al2O3 catalyst. Applied Catalysis B: Environmental, 2006, 65, 282-290.	20.2	61
135	Line narrowing in 1H MAS spectrum of mesoporous silica by removing adsorbed H2O using N2. Solid State Nuclear Magnetic Resonance, 2005, 27, 200-205.	2.3	32
136	Differential kinetic analysis of diesel particulate matter (soot) oxidation by oxygen using a stepâ€“response technique. Applied Catalysis B: Environmental, 2005, 61, 120-129.	20.2	119
137	Changes in Ba Phases in BaO/Al2O3 upon Thermal Aging and H2O Treatment. Catalysis Letters, 2005, 105, 259-268.	2.6	43
138	Changing Morphology of BaO/Al2O3during NO2Uptake and Release. Journal of Physical Chemistry B, 2005, 109, 7339-7344.	2.6	79
139	Interaction of Water with Ordered Î¸-Al2O3Ultrathin Films Grown on NiAl(100). Journal of Physical Chemistry B, 2005, 109, 3431-3436.	2.6	35
140	NO2Adsorption on BaO/Al2O3:Â The Nature of Nitrate Species. Journal of Physical Chemistry B, 2005, 109, 27-29.	2.6	117
141	NO2Adsorption on Ultrathin Î¸-Al2O3Films:Â Formation of Nitrite and Nitrate Species. Journal of Physical Chemistry B, 2005, 109, 15977-15984.	2.6	60
142	CHEMISTRY: Oxygen Vacancies and Catalysis on Ceria Surfaces. Science, 2005, 309, 713-714.	12.6	1,103
143	The Catalytic Chemistry of HCN + NO2over Naâ^' and Baâ^'Y,FAU:Â An in Situ FTIR and TPD/TPR Study. Journal of Physical Chemistry B, 2005, 109, 1481-1490.	2.6	9
144	Non-thermal plasma-assisted NOx reduction over alkali and alkaline earth ion exchanged Y, FAU zeolites. Catalysis Today, 2004, 89, 135-141.	4.4	41

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145	The Effect of Water on the Adsorption of NO2in Naâˆ’ and Baâˆ’Y, FAU Zeolites:Â A Combined FTIR and TPD Investigation. Journal of Physical Chemistry B, 2004, 108, 3746-3753.	2.6	64
146	Adsorption, Coadsorption, and Reaction of Acetaldehyde and NO2on Naâˆ’Y,FAU:Â An In Situ FTIR Investigation. Journal of Physical Chemistry B, 2004, 108, 17050-17058.	2.6	18
147	Adsorption and Reaction of SO2on Model Ce1Â-ÂxZrxO2(111) Catalysts. Journal of Physical Chemistry B, 2004, 108, 2931-2938.	2.6	39
148	Nonthermal plasma-assisted catalytic NOx reduction over Ba-Y,FAU: the effect of catalyst preparation. Journal of Catalysis, 2003, 220, 291-298.	6.2	36
149	Conversion of N2O to N2 on TiO2(1 1 0). Catalysis Today, 2003, 85, 251-266.	4.4	30
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151	The adsorption of NO2and the NOâ€‰+â€‰O2reaction on Na-Y,FAU: an in situ FTIR investigation. Physical Chemistry Chemical Physics, 2003, 5, 4045-4051.	2.8	68
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