Ja Hun Kwak

List of Publications by Year
in descending order

144 papers	12,447 citations	29994 54 h-index	25716 108 g-index
147 all docs	147 docs citations	147 times ranked	11871 citing authors

#	Article	IF	Citations
1	Direct propylene epoxidation with oxygen using a photo-electro-heterogeneous catalytic system. Nature Catalysis, 2022, 5, 37-44.	16.1	58
2	Key Role of aâ€Top CO on Terrace Sites of Metallic Pd Clusters for CO Oxidation. Chemistry - A European Journal, 2022, 28, .	1.7	5
3	Interfacial effect of Pd supported on mesoporous oxide for catalytic furfural hydrogenation. Catalysis Today, 2021, 365, 291-300.	2.2	13
4	Cu2O(100) surface as an active site for catalytic furfural hydrogenation. Applied Catalysis B: Environmental, 2021, 282, 119576.	10.8	43
5	High-Field One-Dimensional and Two-Dimensional ²⁷Al Magic-Angle Spinning Nuclear Magnetic Resonance Study of Î¸-, Î´-, and Î³-Al₂O₃ Dominated Aluminum Oxides: Toward Understanding the Al Sites in Î³-Al₂O₃. ACS Omega, 2021, 6, 4090-4099.	1.6	29
6	CH₄ Oxidation Activity in Pd and Ptâ€“Pd Bimetallic Catalysts: Correlation with Surface PdO_x Quantified from the DRIFTS Study. ACS Catalysis, 2021, 11, 5894-5905.	5.5	59
7	Pd/SiO2 as an active and durable CH4 oxidation catalyst for vehicle applications. Journal of Industrial and Engineering Chemistry, 2021, 99, 90-97.	2.9	7
8	Surface Density Dependent Catalytic Activity of Single Palladium Atoms Supported on Ceria**. Angewandte Chemie - International Edition, 2021, 60, 22769-22775.	7.2	34
9	Surface Density Dependent Catalytic Activity of Single Palladium Atoms Supported on Ceria**. Angewandte Chemie, 2021, 133, 22951.	1.6	0
10	RÃ¼cktitelbild: Surface Density Dependent Catalytic Activity of Single Palladium Atoms Supported on Ceria (Angew. Chem. 42/2021). Angewandte Chemie, 2021, 133, 23212-23212.	1.6	1
11	Effect of Pt pre-sintering on the durability of PtPd/Al2O3 catalysts for CH4 oxidation. Applied Catalysis B: Environmental, 2020, 260, 118098.	10.8	34
12	Morphology change and phase transformation of alumina related to defect sites and its use in catalyst preparation. Catalysis Today, 2020, 352, 323-328.	2.2	13
13	A General Strategy to Atomically Dispersed Precious Metal Catalysts for Unravelling Their Catalytic Trends for Oxygen Reduction Reaction. ACS Nano, 2020, 14, 1990-2001.	7.3	116
14	Mechanism of CO Oxidation on Pd/CeO 2 (100): The Unique Surfaceâ€Structure of CeO 2 (100) and the Role of Peroxide. ChemCatChem, 2020, 12, 5164-5172.	1.8	3
15	High-performance and stable photoelectrochemical water splitting cell with organic-photoactive-layer-based photoanode. Nature Communications, 2020, 11, 5509.	5.8	103
16	Ni catalysts for dry methane reforming prepared by A-site exsolution on mesoporous defect spinel magnesium aluminate. Applied Catalysis A: General, 2020, 602, 117694.	2.2	40
17	Morphology and size of Pt on Al2O3: The role of specific metal-support interactions between Pt and Al2O3. Journal of Catalysis, 2020, 385, 204-212.	3.1	44
18	Structure-dependent catalytic properties of mesoporous cobalt oxides in furfural hydrogenation. Applied Catalysis A: General, 2019, 583, 117125.	2.2	22

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19	Mesoporous mixed CuCo oxides as robust catalysts for liquid-phase furfural hydrogenation. Applied Catalysis A: General, 2019, 571, 118-126.	2.2	37
20	Controlling the acid-base properties of alumina for stable PtSn-based propane dehydrogenation catalysts. Applied Catalysis A: General, 2019, 572, 1-8.	2.2	57
21	Effect of number and properties of specific sites on alumina surfaces for Pt-Al2O3 catalysts. Applied Catalysis A: General, 2019, 569, 8-19.	2.2	29
22	Molecular Engineered Safer Organic Battery through the Incorporation of Flame Retarding Organophosphonate Moiety. ACS Applied Materials & Interfaces, 2018, 10, 10096-10101.	4.0	5
23	Supported Pd nanoparticle catalysts with high activities and selectivities in liquid-phase furfural hydrogenation. Fuel, 2018, 226, 607-617.	3.4	60
24	Critical role of (100) facets on Î³-Al2O3 for ethanol dehydration: Combined efforts of morphology-controlled synthesis and TEM study. Applied Catalysis A: General, 2018, 556, 121-128.	2.2	32
25	Template free facile synthesis of mesoporous mordenite for bulky molecular catalytic reactions. Journal of Industrial and Engineering Chemistry, 2018, 57, 363-369.	2.9	13
26	SiO2@V2O5@Al2O3 coreâ€“shell catalysts with high activity and stability for methane oxidation to formaldehyde. Journal of Catalysis, 2018, 368, 134-144.	3.1	19
27	Acidic effect of porous alumina as supports for Pt nanoparticle catalysts in n-hexane reforming. Catalysis Science and Technology, 2018, 8, 3295-3303.	2.1	16
28	Facile Synthesis and Characterization of Nanostructured Transition Metal/Ceria Solid Solutions (TM_xCe_{1â€“x}O_{2â^'Î´}, TM = Mn, Ni, Co, or Fe) for CO Oxidation. Chemistry of Materials, 2017, 29, 2874-2882.	3.2	40
29	Efficient CO Oxidation by 50-Facet Cu₂O Nanocrystals Coated with CuO Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 2495-2499.	4.0	31
30	Acid-base properties of Al2O3: Effects of morphology, crystalline phase, and additives. Journal of Catalysis, 2017, 345, 135-148.	3.1	38
31	Evolution of form in metalâ€“organic frameworks. Nature Communications, 2017, 8, 14070.	5.8	89
32	Cross-linking Zr-based metalâ€“organic polyhedra via postsynthetic polymerization. Chemical Science, 2017, 8, 7765-7771.	3.7	122
33	Efficient copper catalysts for C H bond arylation under microwave heating: Direct access to multi-substituted pivanilides. Catalysis Communications, 2017, 90, 83-86.	1.6	11
34	Ethanol dehydration on Î³-Al2O3: Effects of partial pressure and temperature. Molecular Catalysis, 2017, 434, 39-48.	1.0	24
35	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.	1.3	25
36	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.	3.1	47

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37	Nâ€“H and Sâ€“H insertions over Cu(I)-zeolites as heterogeneous catalysts. Journal of Molecular Catalysis A, 2016, 417, 10-18.	4.8	20
38	CH bond arylation of anilides inside copper-exchanged zeolites. Journal of Molecular Catalysis A, 2016, 417, 64-70.	4.8	5
39	Modification of the acid/base properties of Î³-Al2O3 by oxide additives: An ethanol TPD investigation. Catalysis Today, 2016, 265, 240-244.	2.2	16
40	Morphology-dependent phase transformation of Î³-Al2O3. Applied Catalysis A: General, 2015, 500, 58-68.	2.2	65
41	Photo-catalytic oxidation of acetone on a TiO2 powder: An in situ FTIR investigation. Journal of Molecular Catalysis A, 2015, 406, 213-223.	4.8	28
42	Mechanism of CO₂ Hydrogenation on Pd/Al₂O₃ Catalysts: Kinetics and Transient DRIFTS-MS Studies. ACS Catalysis, 2015, 5, 6337-6349.	5.5	355
43	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.	3.1	131
44	Dissecting the steps of CO₂ reduction: 1. The interaction of CO and CO₂ with Î³-Al₂O₃: an in situ FTIR study. Physical Chemistry Chemical Physics, 2014, 16, 15117-15125.	1.3	103
45	Dissecting the steps of CO₂ reduction: 2. The interaction of CO and CO₂ with Pd/Î³-Al₂O₃: an in situ FTIR study. Physical Chemistry Chemical Physics, 2014, 16, 15126-15138.	1.3	51
46	Molecular Active Sites in Heterogeneous Irâ€“La/C-Catalyzed Carbonylation of Methanol to Acetates. Journal of Physical Chemistry Letters, 2014, 5, 566-572.	2.1	38
47	Structure of Î´-Alumina: Toward the Atomic Level Understanding of Transition Alumina Phases. Journal of Physical Chemistry C, 2014, 118, 18051-18058.	1.5	72
48	Low-temperature carbon monoxide oxidation catalysed by regenerable atomically dispersed palladium on alumina. Nature Communications, 2014, 5, 4885.	5.8	498
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.	2.2	158
50	Heterogeneous Catalysis on Atomically Dispersed Supported Metals: CO₂ Reduction on Multifunctional Pd Catalysts. ACS Catalysis, 2013, 3, 2094-2100.	5.5	310
51	CO₂ Reduction on Supported Ru/Al₂O₃ Catalysts: Cluster Size Dependence of Product Selectivity. ACS Catalysis, 2013, 3, 2449-2455.	5.5	376
52	Characterization of Cu-SSZ-13 NH3 SCR catalysts: an in situ FTIR study. Physical Chemistry Chemical Physics, 2013, 15, 2368.	1.3	142
53	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.	3.1	409
54	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.	1.5	36

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55	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.	1.5	81
56	Current Understanding of Cu-Exchanged Chabazite Molecular Sieves for Use as Commercial Diesel Engine DeNOx Catalysts. Topics in Catalysis, 2013, 56, 1441-1459.	1.3	297
57	Understanding Automotive Exhaust Catalysts Using a Surface Science Approach: Model NOx Storage Materials. Topics in Catalysis, 2013, 56, 1420-1440.	1.3	8
58	A Common Intermediate for N₂ Formation in Enzymes and Zeolites: Sideâ€On Cuâ€“Nitrosyl Complexes. Angewandte Chemie - International Edition, 2013, 52, 9985-9989.	7.2	94
59	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.	1.3	20
60	Highly Dispersed and Active ReO_x on Alumina-Modified SBA-15 Silica for 2-Butanol Dehydration. ACS Catalysis, 2012, 2, 1020-1026.	5.5	22
61	Size-Dependent Catalytic Performance of CuO on Î³-Al₂O₃: NO Reduction versus NH₃ Oxidation. ACS Catalysis, 2012, 2, 1432-1440.	5.5	75
62	Two different cationic positions in Cu-SSZ-13?. Chemical Communications, 2012, 48, 4758.	2.2	350
63	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.	1.4	186
64	Enhanced High Temperature Performance of MgAl2O4-Supported Ptâ€“BaO Lean NOx Trap Catalysts. Topics in Catalysis, 2012, 55, 70-77.	1.3	12
65	Possible origin of improved high temperature performance of hydrothermally aged Cu/beta zeolite catalysts. Catalysis Today, 2012, 184, 245-251.	2.2	35
66	Effects of hydrothermal aging on NH3-SCR reaction over Cu/zeolites. Journal of Catalysis, 2012, 287, 203-209.	3.1	438
67	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.	1.5	37
68	The role of H2O in the carbonation of forsterite in supercritical CO2. International Journal of Greenhouse Gas Control, 2011, 5, 1081-1092.	2.3	103
69	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.	1.5	11
70	Magnetic mesoporous materials for removal of environmental wastes. Journal of Hazardous Materials, 2011, 192, 1140-1147.	6.5	78
71	Effect of reductive treatments on Pt behavior and NOx storage in lean NOx trap catalysts. Catalysis Today, 2011, 175, 78-82.	2.2	4
72	The Origin of Regioselectivity in 2â€Butanol Dehydration on Solid Acid Catalysts. ChemCatChem, 2011, 3, 1557-1561.	1.8	30

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73	(100) facets of Î³-Al2O3: The Active Surfaces for Alcohol Dehydration Reactions. Catalysis Letters, 2011, 141, 649-655.	1.4	105
74	Excellent activity and selectivity of Cu-SSZ-13 in the selective catalytic reduction of NOx with NH3. Journal of Catalysis, 2010, 275, 187-190.	3.1	674
75	Detailed investigation of ion exchange in ball-milled LiH+MgB2 system using ultra-high field nuclear magnetic resonance spectroscopy. Journal of Power Sources, 2010, 195, 3645-3648.	4.0	16
76	Catalyst size and morphological effects on the interaction of NO2 with BaO/Î³-Al2O3 materials. Catalysis Today, 2010, 151, 304-313.	2.2	8
77	The different impacts of SO2 and SO3 on Cu/zeolite SCR catalysts. Catalysis Today, 2010, 151, 266-270.	2.2	96
78	Solid-State Hydriding Mechanism in the LiBH₄ + MgH₂ System. Journal of Physical Chemistry C, 2010, 114, 8089-8098.	1.5	43
79	Metal Carbonation of Forsterite in Supercritical CO₂ and H₂O Using Solid State ²⁹Si, ¹³C NMR Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 4126-4134.	1.5	89
80	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.	2.1	101
81	Direct observation of ion exchange in mechanically activated LiH+MgB2 system using ultrahigh field nuclear magnetic resonance spectroscopy. Applied Physics Letters, 2009, 94, 141905.	1.5	22
82	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.	6.0	790
83	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.	3.1	79
84	Promotional Effect of CO2 on Desulfation Processes for Pre-Sulfated Pt-BaO/Al2O3 Lean NOx Trap Catalysts. Topics in Catalysis, 2009, 52, 1719-1722.	1.3	3
85	Enhanced activity and stability of Pt catalysts on functionalized graphene sheets for electrocatalytic oxygen reduction. Electrochemistry Communications, 2009, 11, 954-957.	2.3	615
86	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.	1.5	17
87	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.	6.6	42
88	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.	1.5	14
89	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.	1.5	29
90	Characterization of surface and bulk nitrates of Î³-Al2O3â€“supported alkaline earth oxides using density functional theory. Physical Chemistry Chemical Physics, 2009, 11, 3380.	1.3	10

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91	Magnetically-separable and highly-stable enzyme system based on crosslinked enzyme aggregates shipped in magnetite-coated mesoporous silica. Journal of Materials Chemistry, 2009, 19, 7864.	6.7	44
92	Probing the reaction pathway of dehydrogenation of the LiNH2+LiH mixture using in situ 1H NMR spectroscopy. Journal of Power Sources, 2008, 181, 116-119.	4.0	25
93	The influence of the electrochemical stressing (potential step and potential-static holding) on the degradation of polymer electrolyte membrane fuel cell electrocatalysts. Journal of Power Sources, 2008, 185, 280-286.	4.0	67
94	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.	1.4	13
95	Effects of Novel Supports on the Physical and Catalytic Properties of Tungstophosphoric Acid for Alcohol Dehydration Reactions. Topics in Catalysis, 2008, 49, 259-267.	1.3	24
96	Simple Synthesis of Functionalized Superparamagnetic Magnetite/Silica Core/Shell Nanoparticles and their Application as Magnetically Separable Highâ€Performance Biocatalysts. Small, 2008, 4, 143-152.	5.2	351
97	Investigation of mechanical activation on Liâ€“Nâ€“H systems using 6Li magic angle spinning nuclear magnetic resonance at ultra-high field. Journal of Power Sources, 2008, 182, 278-283.	4.0	18
98	Sequential high temperature reduction, low temperature hydrolysis for the regeneration of sulfated NOx trap catalysts. Catalysis Today, 2008, 136, 183-187.	2.2	10
99	NOx uptake on alkaline earth oxides (BaO, MgO, CaO and SrO) supported on Î³-Al2O3. Catalysis Today, 2008, 136, 121-127.	2.2	27
100	NMR studies of Cu/zeolite SCR catalysts hydrothermally aged with urea. Catalysis Today, 2008, 136, 34-39.	2.2	35
101	Excellent sulfur resistance of Pt/BaO/CeO2 lean NOx trap catalysts. Applied Catalysis B: Environmental, 2008, 84, 545-551.	10.8	55
102	Role of Pentacoordinated Al³⁺ Ions in the High Temperature Phase Transformation of Î³-Al₂O₃. Journal of Physical Chemistry C, 2008, 112, 9486-9492.	1.5	106
103	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.	1.5	17
104	Adsorption and Formation of BaO Overlayers on Î³-Al₂O₃ Surfaces. Journal of Physical Chemistry C, 2008, 112, 18050-18060.	1.5	29
105	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.	6.6	134
106	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.	1.5	97
107	Inverse Temperature-Dependent Pathway of Cellulose Decrystallization in Trifluoroacetic Acid. Journal of Physical Chemistry B, 2007, 111, 5295-5300.	1.2	38
108	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.	1.5	32

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109	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.	1.5	35
110	Interaction of NO₂ with BaO:â€‰ From Cooperative Adsorption to Ba(NO₃)₂ Formation. Journal of Physical Chemistry C, 2007, 111, 15299-15305.	1.5	56
111	Crosslinked enzyme aggregates in hierarchically-ordered mesoporous silica: A simple and effective method for enzyme stabilization. Biotechnology and Bioengineering, 2007, 96, 210-218.	1.7	187
112	Oxidation of ethanol to acetaldehyde over Na-promoted vanadium oxide catalysts. Applied Catalysis A: General, 2007, 332, 263-272.	2.2	36
113	Study the effects of mechanical activation on Liâ€“Nâ€“H systems with 1H and 6Li solid-state NMR. Journal of Power Sources, 2007, 170, 419-424.	4.0	26
114	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.	3.1	173
115	Water-induced bulk Ba(NO3)2 formation from NO2 exposed thermally aged BaO/Al2O3. Applied Catalysis B: Environmental, 2007, 72, 233-239.	10.8	39
116	A New Route to Improved Glucose Yields in Cellulose Hydrolysis. Journal of Biobased Materials and Bioenergy, 2007, 1, 210-214.	0.1	18
117	Effects of Crystallinity on Dilute Acid Hydrolysis of Cellulose by Cellulose Ball-Milling Study. Energy & Fuels, 2006, 20, 807-811.	2.5	258
118	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.	1.2	30
119	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.	0.8	19
120	Single enzyme nanoparticles in nanoporous silica: A hierarchical approach to enzyme stabilization and immobilization. Enzyme and Microbial Technology, 2006, 39, 474-480.	1.6	63
121	Effects of Ba loading and calcination temperature on BaAl2O4 formation for BaO/Al2O3 NOx storage and reduction catalysts. Catalysis Today, 2006, 114, 86-93.	2.2	70
122	A new class of highly dispersed VOx catalysts on mesoporous silica: Synthesis, characterization, and catalytic activity in the partial oxidation of ethanol. Applied Catalysis A: General, 2006, 300, 109-119.	2.2	41
123	Synthesis of nanodispersed oxides of vanadium, titanium, molybdenum, and tungsten on mesoporous silica using atomic layer deposition. Topics in Catalysis, 2006, 39, 245-255.	1.3	43
124	Non-thermal Plasma-assisted NOx Reduction over Na-Y Zeolites: The Promotional Effect of Acid Sites. Catalysis Letters, 2006, 109, 1-6.	1.4	19
125	NO x uptake mechanism on Pt/BaO/Al2O3 catalysts. Catalysis Letters, 2006, 111, 119-126.	1.4	46
126	Synthesis, characterization, and catalytic function of novel highly dispersed tungsten oxide catalysts on mesoporous silica. Journal of Catalysis, 2006, 239, 200-211.	3.1	130

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127	Line narrowing in 1H MAS spectrum of mesoporous silica by removing adsorbed H2O using N2. Solid State Nuclear Magnetic Resonance, 2005, 27, 200-205.	1.5	32
128	Preparation of a Magnetically Switchable Bio-electrocatalytic System Employing Cross-linked Enzyme Aggregates in Magnetic Mesocellular Carbon Foam. Angewandte Chemie - International Edition, 2005, 44, 7427-7432.	7.2	137
129	Changes in Ba Phases in BaO/Al2O3 upon Thermal Aging and H2O Treatment. Catalysis Letters, 2005, 105, 259-268.	1.4	43
130	Simple Synthesis of Hierarchically Ordered Mesocellular Mesoporous Silica Materials Hosting Crosslinked Enzyme Aggregates. Small, 2005, 1, 744-753.	5.2	184
131	A Magnetically Separable, Highly Stable Enzyme System Based on Nanocomposites of Enzymes and Magnetic Nanoparticles Shipped in Hierarchically Ordered, Mesocellular, Mesoporous Silica. Small, 2005, 1, 1203-1207.	5.2	106
132	Direct fabrication of enzyme-carrying polymer nanofibers by electrospinning. Journal of Materials Chemistry, 2005, 15, 3241.	6.7	111
133	Changing Morphology of BaO/Al2O3during NO2Uptake and Release. Journal of Physical Chemistry B, 2005, 109, 7339-7344.	1.2	79
134	NO2Adsorption on BaO/Al2O3:Â The Nature of Nitrate Species. Journal of Physical Chemistry B, 2005, 109, 27-29.	1.2	117
135	Preparation of biocatalytic nanofibres with high activity and stability via enzyme aggregate coating on polymer nanofibres. Nanotechnology, 2005, 16, S382-S388.	1.3	175
136	The Catalytic Chemistry of HCN + NO2over Naâˆ’ and Baâˆ’Y,FAU:Â An in Situ FTIR and TPD/TPR Study. Journal of Physical Chemistry B, 2005, 109, 1481-1490.	1.2	9
137	Non-thermal plasma-assisted NOx reduction over alkali and alkaline earth ion exchanged Y, FAU zeolites. Catalysis Today, 2004, 89, 135-141.	2.2	41
138	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.	1.2	64
139	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.	1.2	18
140	Nonthermal plasma-assisted catalytic NOx reduction over Ba-Y,FAU: the effect of catalyst preparation. Journal of Catalysis, 2003, 220, 291-298.	3.1	36
141	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.	1.3	68
142	A new synthesis procedure for titanium-containing zeolites under strong alkaline conditions and the catalytic activity for partial oxidation and photocatalytic decomposition. Catalysis Letters, 1996, 37, 217-221.	1.4	11
143	Characterization of MoAl2O3 sol-gel catalyst by 27Al nuclear magnetic resonance spectroscopy. Journal of Molecular Catalysis A, 1996, 104, 285-291.	4.8	5
144	129Xe Nuclear magnetic resonance study on a solid-state defect in HZSM-5 zeolite. Microporous Materials, 1995, 4, 59-64.	1.6	12