

Miki Niwa

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Quantitative analysis of acidic OH groups in zeolite by ammonia IRMS-TPD and DFT: Application to BEA. <i>Catalysis Today</i> , 2014, 226, 37-46.	4.4	22
2	New Method for the Temperature- Programmed Desorption (TPD) of Ammonia Experiment for Characterization of Zeolite Acidity: A Review. <i>Chemical Record</i> , 2013, 13, 432-455.	5.8	156
3	Dependence of cracking activity on the Brønsted acidity of Y zeolite: DFT study and experimental confirmation. <i>Catalysis Science and Technology</i> , 2013, 3, 1919.	4.1	35
4	Strong Brønsted acid site in HZSM-5 created by mild steaming. <i>Catalysis Today</i> , 2012, 185, 17-24.	4.4	46
5	Hydrothermal synthesis and catalysis of Nb ₂ O ₅ ‐WO _x nanofiber crystal. <i>Journal of Materials Chemistry</i> , 2011, 21, 229-235.	6.7	28
6	Acidic Properties of Cage-Based, Small-Pore Zeolites with Different Framework Topologies and Their Silicoaluminophosphate Analogues. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22505-22513.	3.1	40
7	Ammonia IRMS-TPD measurements on Brønsted acidity of proton-formed SAPO-34. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3311-3318.	2.8	30
8	Acidity and cracking activity on MgHY zeolite. <i>Microporous and Mesoporous Materials</i> , 2011, 146, 208-215.	4.4	7
9	Evolution of strong acidity and high-alkane-cracking activity in ammonium-treated USY zeolites. <i>Applied Catalysis A: General</i> , 2011, 405, 8-17.	4.3	23
10	Measurements of Acidity of H-SSZ-35 by a Combined Method of IRMS-TPD Experiment and DFT Calculation. <i>Catalysis Letters</i> , 2010, 140, 134-139.	2.6	2
11	Ammonia IRMS-TPD Characterization of Brønsted Acid Sites in Medium-pore Zeolites with Different Framework Topologies. <i>Topics in Catalysis</i> , 2010, 53, 664-671.	2.8	16
12	Origin of the excellent catalytic activity of Pd loaded on ultra-stable Y zeolites in Suzuki‐Miyaura reactions. <i>Journal of Catalysis</i> , 2010, 273, 156-166.	6.2	58
13	Correlation of the cracking activity with solid acidity and adsorption property on zeolites. <i>Applied Catalysis A: General</i> , 2010, 373, 208-213.	4.3	52
14	IRMS-TPD Measurements of Acid Sites. <i>Springer Series in Materials Science</i> , 2010, , 29-59.	0.6	1
15	Catalytic Reaction on the Palladium-Loaded Zeolites. <i>Springer Series in Materials Science</i> , 2010, , 163-179.	0.6	0
16	Characterization and Design of Zeolite Catalysts. <i>Springer Series in Materials Science</i> , 2010, , .	0.6	40
17	Application of the CVD of Silica to the Shape Selective Reaction. <i>Springer Series in Materials Science</i> , 2010, , 129-147.	0.6	0
18	CVD of Silica for the Shape Selective Reaction. <i>Springer Series in Materials Science</i> , 2010, , 103-127.	0.6	0

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19	Solid Acidity of Zeolites. Springer Series in Materials Science, 2010, , 9-27.	0.6	3
20	Catalytic Activity and Adsorption Property. Springer Series in Materials Science, 2010, , 79-101.	0.6	0
21	Combined Method of Ammonia IRMS-TPD Experiment and DFT Calculation to Characterize Zeolite Acidity. Journal of the Japan Petroleum Institute, 2009, 52, 172-179.	0.6	5
22	Enhancement of the Catalytic Activity of a Dawson-type Heteropoly Acid Induced by the Loading on a Silica Support. Topics in Catalysis, 2009, 52, 649-656.	2.8	11
23	HZSM-5 modified by silica CVD for shape-selective production of p-xylene: Influence of in situ and ex situ preparation conditions of the zeolite. Microporous and Mesoporous Materials, 2009, 117, 523-529.	4.4	23
24	Characterization of sulfated zirconia prepared using reference catalysts and application to several model reactions. Applied Catalysis A: General, 2009, 360, 89-97.	4.3	27
25	Biodiesel production using heteropoly acid-derived solid acid catalyst H ₄ PNbW ₁₁ O ₄₀ /WO ₃ ·Nb ₂ O ₅ . Applied Catalysis A: General, 2009, 363, 164-168.	4.3	53
26	Periodic Density Functional Calculation on the Brønsted Acidity of Modified Y-Type Zeolite. Journal of Physical Chemistry C, 2009, 113, 5672-5680.	3.1	38
27	Correlation between Brønsted Acid Strength and Local Structure in Zeolites. Journal of Physical Chemistry C, 2009, 113, 19208-19217.	3.1	122
28	Periodic DFT Calculation of the Energy of Ammonia Adsorption on Zeolite Brønsted Acid Sites to Support the Ammonia IRMS-TPD Experiment. Chemistry Letters, 2009, 38, 354-355.	1.3	17
29	Trinity Study on the Zeolite Acidity using Thermal Measurements, Spectroscopy, and Density Functional Theory Calculation. Hyomen Kagaku, 2009, 30, 104-110.	0.0	0
30	Measurements of number and strength distribution of Brønsted and Lewis acid sites on sulfated zirconia by ammonia IRMS-TPD method. Applied Catalysis A: General, 2008, 340, 76-86.	4.3	40
31	Production of ethanol by vapor phase hydration of ethene over tungsta monolayer catalyst loaded on titania. Applied Catalysis A: General, 2008, 349, 55-61.	4.3	22
32	Combined study of IRMS-TPD measurement and DFT calculation on Brønsted acidity and catalytic cracking activity of cation-exchanged Y zeolites. Journal of Catalysis, 2008, 259, 203-210.	6.2	81
33	Stepwise Growth of Pd Clusters in USY Zeolite at Room Temperature Analyzed by QXAFS. Journal of Physical Chemistry C, 2008, 112, 16740-16747.	3.1	21
34	Quantitative Measurements of Brønsted Acidity of Zeolites by Ammonia IRMS-TPD Method and Density Functional Calculation. Chemistry Letters, 2007, 36, 1034-1035.	1.3	23
35	Ammonia IRMS-TPD measurements and DFT calculation on acidic hydroxyl groups in CHA-type zeolites. Physical Chemistry Chemical Physics, 2007, 9, 5980.	2.8	51
36	Analysis of Toluene Adsorption on Na-Form Zeolite with a Temperature-Programmed Desorption Method. Journal of Physical Chemistry C, 2007, 111, 1474-1479.	3.1	47

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37	In-Situ QXAFS Studies on the Dynamic Coalescence and Dispersion Processes of Pd in the USY Zeolite. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14426-14432.	3.1	18
38	Detection and Quantitative Measurements of Four Kinds of OH in HY Zeolite. <i>Journal of Physical Chemistry C</i> , 2007, 111, 894-900.	3.1	54
39	IRMS-TPD of ammonia: Direct and individual measurement of Brønsted acidity in zeolites and its relationship with the catalytic cracking activity. <i>Journal of Catalysis</i> , 2007, 250, 151-160.	6.2	105
40	Cooperative effect induced by the mixing of Na-ZSM-5 and Pd/H3PW12O40/SiO2 in the selective catalytic reduction of NO with aromatic hydrocarbons. <i>Applied Catalysis B: Environmental</i> , 2007, 75, 175-181.	20.2	16
41	Identification and Measurements of Strong Brønsted Acid Site in Ultrastable Y (USY) Zeolite. <i>Journal of Physical Chemistry B</i> , 2006, 110, 264-269.	2.6	66
42	Pd loaded on high silica beta support active for the total oxidation of diluted methane in the presence of water vapor. <i>Catalysis Today</i> , 2006, 117, 577-583.	4.4	66
43	Selective Catalytic Reduction of NO by Methane over Pd Loaded on Heteropolyacids/SiO2 at Low Temperature. <i>Bulletin of the Chemical Society of Japan</i> , 2005, 78, 361-366.	3.2	5
44	Standardization of catalyst preparation using reference catalyst: ion exchange of mordenite type zeolite. <i>Applied Catalysis A: General</i> , 2005, 283, 63-74.	4.3	16
45	IRMS-TPD of ammonia for characterization of acid site in β -zeolite. <i>Microporous and Mesoporous Materials</i> , 2005, 82, 105-112.	4.4	72
46	Standardization of catalyst preparation using reference catalyst: ion exchange of mordenite type zeolite. <i>Applied Catalysis A: General</i> , 2005, 283, 75-84.	4.3	16
47	Ammonia IRMS-TPD Study on the Distribution of Acid Sites in Mordenite. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18749-18757.	2.6	112
48	Detection of active sites for paraffin cracking on USY zeolite by 27Al MQMAS NMR operated at high magnetic field 16 T. <i>Journal of Molecular Catalysis A</i> , 2005, 236, 239-245.	4.8	43
49	Analysis of Acidic Properties of Zeolitic and Non-Zeolitic Solid Acid Catalysts Using Temperature-Programmed Desorption of Ammonia. <i>Catalysis Surveys From Asia</i> , 2004, 8, 161-170.	2.6	84
50	Dealumination of proton form mordenite with high aluminum content in atmosphere. <i>Microporous and Mesoporous Materials</i> , 2004, 75, 61-67.	4.4	25
51	Decrease of catalytic activity and solid acidity by ion exchange of Na cation on HZSM-5. <i>Catalysis Today</i> , 2004, 97, 35-39.	4.4	18
52	Energy-Dispersive XAFS Studies on the Spontaneous Dispersion of PdO and the Formation of Stable Pd Clusters in Zeolites. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6250-6255.	2.6	59
53	Support effect of zeolite on the methane combustion activity of palladium. <i>Applied Catalysis B: Environmental</i> , 2003, 40, 151-159.	20.2	129
54	Durable and selective activity of Pd loaded on WO3/ZrO2 for NO, CH4, O2 in the presence of water vapor. <i>Applied Catalysis B: Environmental</i> , 2003, 41, 137-142.	20.2	18

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55	Toluene combustion over palladium supported on various metal oxide supports. <i>Applied Catalysis B: Environmental</i> , 2003, 44, 325-331.	20.2	187
56	Additional acid site on HZSM-5 treated with basic and acidic solutions as detected by temperature-programmed desorption of ammonia. <i>Microporous and Mesoporous Materials</i> , 2003, 66, 283-296.	4.4	48
57	Solid acidity of metal oxide monolayer and its role in catalytic reactions. <i>Catalysis Today</i> , 2003, 87, 213-218.	4.4	42
58	Catalytic activity and solid acidity of vanadium oxide thin layer loaded on TiO ₂ , ZrO ₂ , and SnO ₂ . <i>Catalysis Today</i> , 2003, 78, 131-138.	4.4	28
59	Catalytic activity of Pd loaded on WO ₃ /Al ₂ O ₃ for NO _x -CH ₄ -O ₂ in the presence of water vapor. <i>Catalysis Today</i> , 2003, 84, 159-164.	4.4	6
60	Novel supporting materials of lipase PS suitable for use in an ionic liquid solvent system. <i>Green Chemistry</i> , 2003, 5, 494-496.	9.0	33
61	Synthesis of Al-containing mesoporous silica (KSW-2) with semi-squared channels by incorporation of Al into the framework of kanemite. Electronic supplementary information (ESI) available: powder XRD patterns and ²⁹ Si MAS NMR spectra of kanemite and Al-kanemite, N ₂ adsorption isotherm of Al-KSW-2, TEM images of Al-KSW-2. See http://www.rsc.org/suppdata/jm/b2/b211073c/ . <i>Journal of Materials Chemistry</i> , 2003, 13, 883-887.	6.7	19
62	37 Catalytic activity of gallium-loaded ZSM-5 zeolite for synthesis of aniline from phenol and ammonia. <i>Studies in Surface Science and Catalysis</i> , 2003, , 197-200.	1.5	3
63	Spontaneous Dispersion of PdO onto Acid Sites of Zeolites Studied by in situ DXAFS. <i>Chemistry Letters</i> , 2003, 32, 636-637.	1.3	11
64	Oxidation of Sulfur Dioxide to Sulfuric Acid over Activated Carbon Catalyst Produced from Wood. <i>Journal of the Japan Petroleum Institute</i> , 2003, 46, 392-395.	0.6	5
65	Production of Activated Carbon by Simple Steaming of Wood. <i>Kagaku Kogaku Ronbunshu</i> , 2003, 29, 488-492.	0.3	0
66	Solid Acidity on Zeolites and Metal Oxide Monolayers Measured by the Temperature Programmed Desorption of Ammonia. <i>Hyomen Kagaku</i> , 2003, 24, 635-641.	0.0	1
67	Acid Properties and Catalysis of MCM-22 with Different Al Concentrations. <i>Journal of Catalysis</i> , 2002, 206, 23-28.	6.2	39
68	Control of the Dispersion of Pd Through the Interaction with Acid Sites of Zeolite Studied by EXAFS. <i>Topics in Catalysis</i> , 2002, 18, 85-89.	2.8	17
69	Metal-Support Interaction Which Controls the Oxidation State, Structure and Catalysis of Pd. <i>Catalysis Surveys From Asia</i> , 2002, 5, 121-126.	1.2	24
70	Title is missing!. <i>Catalysis Letters</i> , 2002, 80, 47-51.	2.6	29
71	Support Effect of Metal Oxide on Rh Catalysts in the CH ₄ -CO ₂ Reforming Reaction. <i>Catalysis Letters</i> , 2002, 84, 131-134.	2.6	56
72	Improvement of the Catalytic Performance of Pd/WO ₃ /ZrO ₂ in the Selective NO _x -CH ₄ -O ₂ Reaction by the Addition of Water Vapor. <i>Chemistry Letters</i> , 2001, 30, 1018-1019.	1.3	0

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73	Chemical vapor deposition of silica on silicalite crystals and shape-selective adsorption of paraffins. <i>Microporous and Mesoporous Materials</i> , 2001, 46, 13-21.	4.4	16
74	Title is missing!. <i>Catalysis Letters</i> , 2001, 71, 63-67.	2.6	13
75	A Continuous-Flow Method for Chemical Vapor Deposition of Tetramethoxysilane on γ -Alumina to Prepare Silica Monolayer Solid Acid Catalyst. <i>Journal of Chemical Engineering of Japan</i> , 2001, 34, 306-311.	0.6	4
76	Water vapor tolerance of the Pd/HZSM-5 in the NO-methane-O ₂ reaction: its relation with very strong solid acidity of zeolite support. <i>Studies in Surface Science and Catalysis</i> , 2000, 130, 905-910.	1.5	3
77	Acidity of β zeolite with different Si/Al ₂ ratio as measured by temperature programmed desorption of ammonia. <i>Microporous and Mesoporous Materials</i> , 2000, 40, 271-281.	4.4	109
78	Superacidity and Catalytic Activity of Sulfated Zirconia. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10321-10328.	2.6	125
79	Super acidity confirmed on a monolayer of sulfate species loaded on zirconia. <i>Studies in Surface Science and Catalysis</i> , 2000, 130, 3213-3218.	1.5	9
80	Regulation of the Dispersion of PdO through the Interaction with Acid Sites of Zeolite Studied by Extended X-ray Absorption Fine Structure. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9670-9675.	2.6	52
81	Strong Acidity of MFI-Type Ferrisilicate Determined by Temperature-Programmed Desorption of Ammonia. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5511-5518.	2.6	42
82	Acidic Property of Y- and Mordenite-Type Zeolites with High Aluminum Concentration under Dry Conditions. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7561-7564.	2.6	51
83	Molecular Shape Recognition by a Tin Oxide Chemical Sensor Coated with a Silica Overlay Precisely Designed Using an Organic Molecule as the Template. <i>Langmuir</i> , 2000, 16, 3858-3865.	3.5	31
84	X-ray Absorption Fine Structure Study of the Formation of the Highly Dispersed PdO over ZSM-5 and the Structural Change of Pd Induced by Adsorption of NO. <i>Journal of Physical Chemistry B</i> , 2000, 104, 1050-1057.	2.6	149
85	What Preferentially Determines the para Shape Selectivity: Diffusion of Molecules or External Surface Acidity. <i>ACS Symposium Series</i> , 1999, , 181-187.	0.5	3
86	High catalytic activity for synthesis of aniline from phenol and ammonia found on gallium-containing MFI. <i>Applied Catalysis A: General</i> , 1999, 180, L1-L3.	4.3	18
87	Control of the pore-opening size of HY zeolite by CVD of silicon alkoxide. <i>Microporous and Mesoporous Materials</i> , 1999, 32, 37-44.	4.4	14
88	Role of the solid acidity on the MoO ₃ loaded on SnO ₂ in the methanol oxidation into formaldehyde. <i>Catalysis Today</i> , 1999, 52, 71-81.	4.4	37
89	Characterization of acid sites on the external surface of zeolites. <i>Reaction Kinetics and Catalysis Letters</i> , 1999, 67, 281-287.	0.6	12
90	Tungsten Oxide Monolayer Loaded on Zirconia: Determination of Acidity Generated on the Monolayer. <i>Journal of Physical Chemistry B</i> , 1999, 103, 7206-7213.	2.6	113

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91	Studies on the Formation and Structure of Highly Dispersed PdO Interacted with Brønsted Acid Sites on Zeolite by EXAFS. Chemistry Letters, 1999, 28, 997-998.	1.3	14
92	Generation of Shape-Selectivity of p-Xylene Formation in the Synthesized ZSM-5 Zeolites. Journal of Catalysis, 1998, 173, 433-439.	6.2	83
93	A study on the preparation of supported metal oxide catalysts using JRC-reference catalysts. I. Preparation of a molybdena-alumina catalyst. Part 1. Surface area of alumina. Applied Catalysis A: General, 1998, 170, 315-328.	4.3	38
94	Acidic Property of MFI-Type Gallosilicate Determined by Temperature-Programmed Desorption of Ammonia. Journal of Physical Chemistry B, 1998, 102, 6738-6745.	2.6	70
95	Microstructure of silica monolayer solid acid catalysts determined by ²⁹ Si NMR spectroscopy. Research on Chemical Intermediates, 1998, 24, 481-494.	2.7	15
96	Synthesis of aniline from phenol and ammonia over zeolite beta. Studies in Surface Science and Catalysis, 1997, 105, 1227-1234.	1.5	30
97	Determination of the Acidic Properties of Zeolite by Theoretical Analysis of Temperature-Programmed Desorption of Ammonia Based on Adsorption Equilibrium. Journal of Physical Chemistry B, 1997, 101, 5969-5977.	2.6	374
98	Measurements of acidic property of zeolites by temperature programmed desorption of ammonia. Catalysis Surveys From Asia, 1997, 1, 215-226.	1.2	181
99	Proposal of cooperative study toward establishing asiacatalyst. Korean Journal of Chemical Engineering, 1997, 14, 519-520.	2.7	0
100	Thermally stable environmental catalyst: oxidation of methane over calcined palladium loaded on silica monolayer. Catalysis Today, 1997, 35, 145-151.	4.4	20
101	Silica Overlayers Prepared Using Organic Template Molecules on Tin Oxide and Its Molecular Sieving Property. Chemical Vapor Deposition, 1997, 3, 59-66.	1.3	11
102	Enhancement of Tolerance to the Humidity by Chemical Vapor Deposition of Silicon Alkoxide on Pd-Mordenite Catalyst in the Reaction of NO, Methane and Oxygen. Chemistry Letters, 1996, 25, 275-276.	1.3	8
103	Modification of HZSM-5 by CVD of Various Silicon Compounds and Generation of Para-Selectivity. Journal of Catalysis, 1996, 161, 387-392.	6.2	110
104	Silica Monolayer Solid-Acid Catalyst Prepared by CVD. Chemical Vapor Deposition, 1996, 2, 125-134.	1.3	40
105	Complete oxidation of methane on supported palladium catalyst: Support effect. Applied Catalysis A: General, 1996, 134, 203-215.	4.3	131
106	Effect of Acid Sites on Deactivation of Methanol Conversion over Modified Mordenites.. Kagaku Kogaku Ronbunshu, 1995, 21, 1120-1126.	0.3	3
107	One-point method for the determination of strength of zeolite acidity by temperature programmed desorption of ammonia based on trouton's rule. Studies in Surface Science and Catalysis, 1995, 98, 101-103.	1.5	6
108	A heat-resisting acid catalyst: Thermal stability and acidity of a thin silica layer on alumina calcined at 1493 K. Chemical Vapor Deposition, 1995, 1, 54-60.	1.3	25

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109	Germanium oxide mono-atomic layer prepared by chemical vapor deposition method on γ -alumina: the structure and acidic property. <i>Catalysis Letters</i> , 1995, 32, 131-138.	2.6	17
110	Dependence of selective reduction of NO with C ₃ H ₆ on acid properties of ion-exchanged zeolites. <i>Catalysis Letters</i> , 1995, 31, 367-375.	2.6	49
111	Temperature-Programmed Desorption of Ammonia with Readsorption Based on the Derived Theoretical Equation. <i>The Journal of Physical Chemistry</i> , 1995, 99, 8812-8816.	2.9	172
112	Methanol oxidation on a molybdena monolayer supported on iron oxide. <i>Applied Catalysis A: General</i> , 1993, 96, 113-123.	4.3	24
113	Inactivation of external surface of mordenite and ZSM-5 by chemical vapor deposition of silicon alkoxide. <i>Zeolites</i> , 1993, 13, 518-523.	0.5	50
114	Activity of Barium-ion Exchanged Dealuminated Mordenite for Methanol Conversion into Hydrocarbons.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , 1993, 36, 38-43.	0.1	1
115	One-point method for determining acid strength of zeolite by temperature-programmed desorption of ammonia. <i>Zeolites</i> , 1991, 11, 93-94.	0.5	14
116	Relationship between acid amount and framework aluminum content in mordenite. <i>Zeolites</i> , 1990, 10, 532-538.	0.5	106
117	Morphology of molybdena supported on various oxides and its activity for methanol oxidation. <i>The Journal of Physical Chemistry</i> , 1990, 94, 1477-1482.	2.9	101
118	Thin silica layer on alumina: evidence of the acidity in the monolayer. <i>The Journal of Physical Chemistry</i> , 1990, 94, 6441-6445.	2.9	94
119	Benzaldehyde-ammonia titration method for discrimination between surfaces of metal oxide catalysts. <i>Applied Catalysis</i> , 1990, 67, 297-305.	0.8	36
120	Catalysts prepared by CVD method and their functions.. <i>Hyomen Kagaku</i> , 1990, 11, 104-109.	0.0	0
121	Acid-leached dealuminated mordenite: Effect of acid concentration on catalyst life in methanol conversion. <i>Applied Catalysis</i> , 1989, 53, 169-181.	0.8	44
122	Structure of vanadium oxide on supports as measured by the benzaldehyde-ammonia titration method. <i>The Journal of Physical Chemistry</i> , 1987, 91, 4519-4524.	2.9	42
123	Development of Long-life Dealuminated Mordenite for Methanol Conversion to Hydrocarbons. <i>Chemistry Letters</i> , 1987, 16, 1637-1640.	1.3	12
124	Fine control of the pore-opening size of zeolite ZSM-5 by chemical vapor deposition of silicon methoxide. <i>The Journal of Physical Chemistry</i> , 1986, 90, 6233-6237.	2.9	148
125	Temperature-Programmed Desorption of Ammonia on Zeolites. Influence of the Experimental Conditions on the Acidity Measurement. <i>Bulletin of the Chemical Society of Japan</i> , 1986, 59, 3735-3739.	3.2	102
126	Alumina: sites and mechanism for benzaldehyde and ammonia reaction. <i>The Journal of Physical Chemistry</i> , 1985, 89, 2550-2555.	2.9	30

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127	Measurement of exposed surface area of supports on supported metal oxide catalysts. The Journal of Physical Chemistry, 1985, 89, 3869-3872.	2.9	42
128	Activity of supported platinum catalysts for methane oxidation. Applied Catalysis, 1983, 7, 317-325.	0.8	74