

# Naonobu Katada

## List of Publications by Year in descending order

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140  
papers

4,414  
citations

101543

36  
h-index

123424

61  
g-index

143  
all docs

143  
docs citations

143  
times ranked

3329  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acidic property of YNU-5 zeolite influenced by its unique micropore system. <i>Microporous and Mesoporous Materials</i> , 2022, 330, 111592.	4.4	3
2	Position and Lewis acidic property of active cobalt species on MFI zeolite for catalytic methylation of benzene with methane. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110649.	4.4	9
3	Selective dealkylation of alkyl polycyclic aromatic hydrocarbons towards innovative upgrading process of practical heavy oil. <i>Catalysis Science and Technology</i> , 2021, 11, 239-249.	4.1	7
4	MFI zeolite-supported Ru nanoparticles for efficient conversion of pyroglutamic acid to 2-pyrrolidone. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 1920-1927.	3.7	3
5	Improvement of Photoelectrocatalytic Activity and Stability of $\text{WO}_3$ for Oxygen Photoevolution Reaction by Loading of Brownmillerite-type $\text{Ca}_2\text{FeCoO}_5$ as a Cocatalyst. <i>Energy Technology</i> , 2021, 9, 2100197.	3.8	4
6	Mechanism of tetralin conversion on zeolites for the production of benzene derivatives. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1272-1280.	3.7	17
7	Innovation of catalytic technology for upgrading of crude oil in petroleum refinery. <i>Fuel Processing Technology</i> , 2020, 208, 106518.	7.2	58
8	Reactivity of Methane and Benzene over Metal/MFI Zeolite Analyzed with Temperature-Programmed Reaction Technique. <i>ChemCatChem</i> , 2020, 12, 2333-2340.	3.7	6
9	Brownmillerite-type Crystalline $\text{Ca}_2\text{FeCoO}_5$ Ultrasmall Particles with Single-Nanometer Dimensions as an Active Cocatalyst for Oxygen Photoevolution Reaction. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 2000053.	2.3	5
10	Comparative study of direct methylation of benzene with methane on cobalt-exchanged ZSM-5 and ZSM-11 zeolites. <i>Applied Catalysis A: General</i> , 2020, 601, 117661.	4.3	12
11	Adsorption kinetics in removal of basic nitrogen-containing compounds from practical heavy oils by amorphous silica-alumina. <i>Fuel</i> , 2020, 266, 117055.	6.4	11
12	Synthesis and characterization of MFI-type zincosilicate zeolites with high zinc content using mechanochemically treated $\text{Si-Zn}$ oxide composite. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109594.	4.4	15
13	One-Step Conversion of Glutamic Acid into 2-Pyrrolidone on a Supported Ru Catalyst in a Hydrogen Atmosphere: Remarkable Effect of CO Activation. <i>ChemSusChem</i> , 2019, 12, 1381-1389.	6.8	12
14	Selective Formation of Active Cobalt Species for Direct Methylation of Benzene with Methane on MFI Zeolite by Co-presence of Secondary Elements. <i>Catalysis Letters</i> , 2019, 149, 2627-2635.	2.6	9
15	Ultrafast post-synthesis treatment to prepare ZSM-5@Silicalite-1 as a core-shell structured zeolite catalyst. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 197-202.	4.4	22
16	Analysis and interpretation of acidic nature of aluminosilicates. <i>Molecular Catalysis</i> , 2018, 458, 116-126.	2.0	22
17	Keggin-type molybdovanadophosphoric acids loaded on ZSM-5 zeolite as a bifunctional catalyst for oxidehydration of glycerol. <i>Molecular Catalysis</i> , 2018, 449, 85-92.	2.0	13
18	Removal of Basic Compounds and Dealkylation of Alkyl Polycyclic Aromatic Hydrocarbons in Vacuum Gas Oil. <i>Journal of the Japan Petroleum Institute</i> , 2018, 61, 294-301.	0.6	4

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19	Direct Methylation of Benzene with Methane Catalyzed by Co/MFI Zeolite. <i>ChemCatChem</i> , 2018, 10, 3806-3812.	3.7	24
20	Shape selectivity in toluene disproportionation into para-xylene generated by chemical vapor deposition of tetramethoxysilane on MFI zeolite catalyst. <i>Microporous and Mesoporous Materials</i> , 2017, 242, 118-126.	4.4	41
21	Selecting strong Brønsted acid zeolites through screening from a database of hypothetical frameworks. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14702-14707.	2.8	7
22	Enhancement of catalytic activity for toluene disproportionation by loading Lewis acidic nickel species on ZSM-5 zeolite. <i>Molecular Catalysis</i> , 2017, 435, 110-117.	2.0	19
23	Influence of Acidic Property on Catalytic Activity and Selectivity in Dehydration of Glycerol. <i>ChemistrySelect</i> , 2017, 2, 5524-5531.	1.5	9
24	Dealkylation of alkyl polycyclic aromatic hydrocarbon over silica monolayer solid acid catalyst. <i>Applied Catalysis A: General</i> , 2017, 530, 93-101.	4.3	17
25	Compensation between activation entropy and enthalpy in reactions of aromatic hydrocarbons catalyzed by solid acids. <i>Catalysis Communications</i> , 2017, 102, 103-107.	3.3	13
26	Production of aldehydes from 1,2-alkanediols over silica-supported WO <sub>3</sub> catalyst. <i>Applied Catalysis A: General</i> , 2016, 526, 164-171.	4.3	16
27	Acidic property of BEA zeolite synthesized by seed-directed method. <i>Journal of Porous Materials</i> , 2016, 23, 415-421.	2.6	6
28	Lipase-mediated dynamic kinetic resolution (DKR) of secondary alcohols in the presence of zeolite using an ionic liquid solvent system. <i>Catalysis Today</i> , 2015, 255, 41-48.	4.4	20
29	Assignments of Bending Vibrations of Ammonia Adsorbed on Surfaces of Metal Oxides. <i>Catalysis Letters</i> , 2015, 145, 1904-1912.	2.6	20
30	Relationship between activation energy and pre-exponential factor normalized by the number of Brønsted acid sites in cracking of short chain alkanes on zeolites. <i>Catalysis Science and Technology</i> , 2015, 5, 1864-1869.	4.1	31
31	Acid-base catalysis advanced sciences and spreading applications to solutions of environmental, resources and energy issues: ABC-7, 7th International Symposium on Acid-Base Catalysis, Tokyo, May 12-15, 2013. <i>Catalysis Today</i> , 2014, 226, 1.	4.4	2
32	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
33	Structure and catalysis of layered Nb-W oxide constructed by the self-assembly of nanofibers. <i>Catalysis Today</i> , 2013, 204, 197-203.	4.4	4
34	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
35	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
36	Fabrication and Catalytic Activity of Thermally Stable Gold Nanoparticles on Ultrastable Y (USY) Zeolites. <i>Catalysts</i> , 2013, 3, 599-613.	3.5	11

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37	Spontaneous Dispersion of Gold Nanoparticles Loaded on USY Zeolites as Analyzed by XAFS, XRD, and TEM. <i>Chemistry Letters</i> , 2012, 41, 337-339.	1.3	4
38	Formation and Catalysis of Mesoporous Nb-Mo Oxide Generated by the Self-assembly of Nanoparticles. <i>Chemistry Letters</i> , 2012, 41, 947-949.	1.3	1
39	HZSM-5 treated with ammonia and water vapor: Characterization and cracking activity. <i>Catalysis Today</i> , 2012, 198, 12-18.	4.4	7
40	Formation of nanometer-sized Au particles on USY zeolites under hydrogen atmosphere. <i>Gold Bulletin</i> , 2012, 45, 83-90.	2.4	7
41	Strong Brønsted acid site in HZSM-5 created by mild steaming. <i>Catalysis Today</i> , 2012, 185, 17-24.	4.4	46
42	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
43	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
44	Acidity and cracking activity on MgHY zeolite. <i>Microporous and Mesoporous Materials</i> , 2011, 146, 208-215.	4.4	7
45	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
46	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
47	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
48	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
49	IRMS-TPD Measurements of Acid Sites. <i>Springer Series in Materials Science</i> , 2010, , 29-59.	0.6	1
50	Computational Study of Brønsted Acidity of Mordenite. Effect of the Electric Field on the Infrared OH Stretching Frequencies. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15424-15431.	3.1	21
51	Catalytic Reaction on the Palladium-Loaded Zeolites. <i>Springer Series in Materials Science</i> , 2010, , 163-179.	0.6	0
52	Characterization and Design of Zeolite Catalysts. <i>Springer Series in Materials Science</i> , 2010, , .	0.6	40
53	Application of the CVD of Silica to the Shape Selective Reaction. <i>Springer Series in Materials Science</i> , 2010, , 129-147.	0.6	0
54	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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55	Solid Acidity of Zeolites. Springer Series in Materials Science, 2010, , 9-27.	0.6	3
56	DFT Calculation of the Solid Acidity. Springer Series in Materials Science, 2010, , 61-78.	0.6	0
57	Catalytic Activity and Adsorption Property. Springer Series in Materials Science, 2010, , 79-101.	0.6	0
58	Zeolite Loading Property for Active Sites and XAFS Measurements. Springer Series in Materials Science, 2010, , 149-162.	0.6	0
59	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
60	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
61	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
62	Biodiesel production using heteropoly acid-derived solid acid catalyst H4PNbW11O40/WO3@Nb2O5. Applied Catalysis A: General, 2009, 363, 164-168.	4.3	53
63	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
64	Correlation between Brønsted Acid Strength and Local Structure in Zeolites. Journal of Physical Chemistry C, 2009, 113, 19208-19217.	3.1	122
65	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
66	Trinity Study on the Zeolite Acidity using Thermal Measurements, Spectroscopy, and Density Functional Theory Calculation. Hyomen Kagaku, 2009, 30, 104-110.	0.0	0
67	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
68	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
69	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
70	Computational Study of Brønsted Acidity of Faujasite. Effect of the Al Content on the Infrared OH Stretching Frequencies. Journal of Physical Chemistry C, 2008, 112, 19293-19301.	3.1	30
71	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
72	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

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73	Analysis of Toluene Adsorption on Na-Form Zeolite with a Temperature-Programmed Desorption Method. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1474-1479.	3.1	47
74	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
75	Molecular shape-selective detection by tin oxide film sensor modified with chemical vapor deposition of molecular-sieving silica overlayer using organic template. <i>Sensors and Actuators B: Chemical</i> , 2007, 124, 398-406.	7.8	4
76	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
77	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
78	Shape-Selective Adsorption of Substituted Benzaldehyde Isomers by a Molecular Sieving Silica Overlayer Prepared by the Chemical Vapor Deposition Method Using Organic Template on Tin Oxide. <i>Bulletin of the Chemical Society of Japan</i> , 2005, 78, 1425-1430.	3.2	5
79	Formation of Selective Adsorption Cavity by Chemical Vapor Deposition of Molecular Sieving Silica Overlayer on Alumina using Molecular Template in the Presence of Acetic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 2005, 78, 1001-1007.	3.2	3
80	Distribution of Acid Sites in Mordenite. <i>Chemistry Letters</i> , 2005, 34, 398-399.	1.3	5
81	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
82	IRMS-TPD of ammonia for characterization of acid site in $\beta$ -zeolite. <i>Microporous and Mesoporous Materials</i> , 2005, 82, 105-112.	4.4	72
83	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
84	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
85	Detection of active sites for paraffin cracking on USY zeolite by $^{27}\text{Al}$ MQMAS NMR operated at high magnetic field 16 T. <i>Journal of Molecular Catalysis A</i> , 2005, 236, 239-245.	4.8	43
86	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
87	Effect of preparation conditions on platinum metal dispersion and turnover frequency of several reactions over platinum-supported on alumina catalysts. <i>Applied Catalysis A: General</i> , 2004, 272, 329-338.	4.3	34
88	Analysis of Acidic Properties of Zeolitic and Non-Zeolitic Solid Acid Catalysts Using Temperature-Programmed Desorption of Ammonia. <i>ChemInform</i> , 2004, 35, no.	0.0	0
89	Dealumination of proton form mordenite with high aluminum content in atmosphere. <i>Microporous and Mesoporous Materials</i> , 2004, 75, 61-67.	4.4	25
90	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

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91	Performance and characterization of BEA catalysts for catalytic cracking. Applied Catalysis A: General, 2004, 273, 63-73.	4.3	21
92	Highly Active BEA Catalyst for Catalytic Cracking of n-Heptane. Catalysis Letters, 2003, 89, 153-157.	2.6	8
93	Additional acid site on HZSM-5 treated with basic and acidic solutions as detected by temperature-programmed desorption of ammonia. Microporous and Mesoporous Materials, 2003, 66, 283-296.	4.4	48
94	Solid acidity of metal oxide monolayer and its role in catalytic reactions. Catalysis Today, 2003, 87, 213-218.	4.4	42
95	Catalytic activity and solid acidity of vanadium oxide thin layer loaded on TiO <sub>2</sub> , ZrO <sub>2</sub> , and SnO <sub>2</sub> . Catalysis Today, 2003, 78, 131-138.	4.4	28
96	Novel supporting materials of lipase PS suitable for use in an ionic liquid solvent system. Green Chemistry, 2003, 5, 494-496.	9.0	33
97	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 <sup>29</sup> Si MAS NMR spectra of kanemite and Al-kanemite, N <sub>2</sub> adsorption isotherm of Al-KSW-2, TEM images of Al-KSW-2. See <a href="http://www.rsc.org/suppdata/jm/b2/b211073c/">http://www.rsc.org/suppdata/jm/b2/b211073c/</a> . Journal of Materials Chemistry, 2003, 13, 883-887.	6.7	19
98	37 Catalytic activity of gallium-loaded ZSM-5 zeolite for synthesis of aniline from phenol and ammonia. Studies in Surface Science and Catalysis, 2003, , 197-200.	1.5	3
99	Oxidation of Sulfur Dioxide to Sulfuric Acid over Activated Carbon Catalyst Produced from Wood. Journal of the Japan Petroleum Institute, 2003, 46, 392-395.	0.6	5
100	Production of Activated Carbon by Simple Steaming of Wood. Kagaku Kogaku Ronbunshu, 2003, 29, 488-492.	0.3	0
101	Solid Acidity on Zeolites and Metal Oxide Monolayers Measured by the Temperature Programmed Desorption of Ammonia. Hyomen Kagaku, 2003, 24, 635-641.	0.0	1
102	Title is missing!. Catalysis Letters, 2002, 80, 47-51.	2.6	29
103	Chemical vapor deposition of silica on silicalite crystals and shape-selective adsorption of paraffins. Microporous and Mesoporous Materials, 2001, 46, 13-21.	4.4	16
104	A Continuous-Flow Method for Chemical Vapor Deposition of Tetramethoxysilane on $\gamma$ -Alumina to Prepare Silica Monolayer Solid Acid Catalyst. Journal of Chemical Engineering of Japan, 2001, 34, 306-311.	0.6	4
105	Acidity of H <sup>+</sup> zeolite with different Si/Al <sub>2</sub> ratio as measured by temperature programmed desorption of ammonia. Microporous and Mesoporous Materials, 2000, 40, 271-281.	4.4	109
106	Superacidity and Catalytic Activity of Sulfated Zirconia. Journal of Physical Chemistry B, 2000, 104, 10321-10328.	2.6	125
107	Super acidity confirmed on a monolayer of sulfate species loaded on zirconia. Studies in Surface Science and Catalysis, 2000, 130, 3213-3218.	1.5	9
108	Strong Acidity of MFI-Type Ferrisilicate Determined by Temperature-Programmed Desorption of Ammonia. Journal of Physical Chemistry B, 2000, 104, 5511-5518.	2.6	42

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109	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
110	Molecular Shape Recognition by a Tin Oxide Chemical Sensor Coated with a Silica Overlayer Precisely Designed Using an Organic Molecule as the Template. <i>Langmuir</i> , 2000, 16, 3858-3865.	3.5	31
111	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
112	Concentration of Hydroxyl Groups on Silica Monolayer Solid Acid Catalyst. <i>Journal of Catalysis</i> , 1999, 186, 478-480.	6.2	13
113	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
114	A study on the preparation of supported metal oxide catalysts using JRC-reference catalysts. I. Preparation of a molybdena-alumina catalyst. Part 2. Volume of an impregnation solution. <i>Applied Catalysis A: General</i> , 1998, 170, 329-342.	4.3	20
115	A study on the preparation of supported metal oxide catalysts using JRC-reference catalysts. I. Preparation of a molybdena-alumina catalyst. Part 4. Preparation parameters and impact index. <i>Applied Catalysis A: General</i> , 1998, 170, 359-379.	4.3	13
116	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. <i>Applied Catalysis A: General</i> , 1998, 170, 315-328.	4.3	38
117	A study on the preparation of supported metal oxide catalysts using JRC-reference catalysts. I. Preparation of a molybdena-alumina catalyst. Part 3. Drying process. <i>Applied Catalysis A: General</i> , 1998, 170, 343-357.	4.3	18
118	Molecular Sieving Silica Overlayer on $\gamma$ -Alumina: The Structure and Acidity Controlled by the Template Molecule. <i>Langmuir</i> , 1998, 14, 4623-4629.	3.5	13
119	Acidic Property of MFI-Type Gallosilicate Determined by Temperature-Programmed Desorption of Ammonia. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6738-6745.	2.6	70
120	Microstructure of silica monolayer solid acid catalysts determined by $^{29}\text{Si}$ NMR spectroscopy. <i>Research on Chemical Intermediates</i> , 1998, 24, 481-494.	2.7	15
121	Molecular-Sieving Gas Sensor Prepared by Chemical Vapor Deposition of Silica on Tin Oxide Using an Organic Template. <i>Bulletin of the Chemical Society of Japan</i> , 1998, 71, 513-519.	3.2	11
122	Synthesis of aniline from phenol and ammonia over zeolite beta. <i>Studies in Surface Science and Catalysis</i> , 1997, 105, 1227-1234.	1.5	30
123	Determination of the Acidic Properties of Zeolite by Theoretical Analysis of Temperature-Programmed Desorption of Ammonia Based on Adsorption Equilibrium. <i>Journal of Physical Chemistry B</i> , 1997, 101, 5969-5977.	2.6	374
124	Measurements of acidic property of zeolites by temperature programmed desorption of ammonia. <i>Catalysis Surveys From Asia</i> , 1997, 1, 215-226.	1.2	181
125	Thermally stable environmental catalyst: oxidation of methane over calcined palladium loaded on silica monolayer. <i>Catalysis Today</i> , 1997, 35, 145-151.	4.4	20
126	Molecular sieving property of silica overlayer on tin oxide generated by organic template. <i>Applied Surface Science</i> , 1997, 121-122, 292-295.	6.1	14



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127	Silica Overlayers Prepared Using Organic Template Molecules on Tin Oxide and Its Molecular Sieving Property. <i>Chemical Vapor Deposition</i> , 1997, 3, 59-66.	1.3	11
128	Silica Monolayer Solid-Acid Catalyst Prepared by CVD. <i>Chemical Vapor Deposition</i> , 1996, 2, 125-134.	1.3	40
129	Complete oxidation of methane on supported palladium catalyst: Support effect. <i>Applied Catalysis A: General</i> , 1996, 134, 203-215.	4.3	131
130	Generation of acidity of silica monolayer by network of Si-O-Si on alumina. <i>Research on Chemical Intermediates</i> , 1995, 21, 137-149.	2.7	10
131	A heat-resisting acid catalyst: Thermal stability and acidity of a thin silica layer on alumina calcined at 1493 K. <i>Chemical Vapor Deposition</i> , 1995, 1, 54-60.	1.3	25
132	Vapor-phase Beckmann rearrangement over silica monolayers prepared by chemical vapor deposition. <i>Applied Catalysis A: General</i> , 1995, 124, 1-7.	4.3	19
133	Germanium oxide mono-atomic layer prepared by chemical vapor deposition method on $\gamma$ -alumina: the structure and acidic property. <i>Catalysis Letters</i> , 1995, 32, 131-138.	2.6	17
134	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
135	Molecular sieving silica overlayer on tin oxide prepared using an organic template. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 623.	2.0	17
136	Mechanism of Growth of Silica Monolayer and Generation of Acidity by Chemical Vapor Deposition of Tetramethoxysilane on Alumina. <i>The Journal of Physical Chemistry</i> , 1994, 98, 7647-7652.	2.9	41
137	3.16 Acidic Property of Silica Monolayers on Metal Oxides Prepared by CVD Method. <i>Studies in Surface Science and Catalysis</i> , 1994, , 333-338.	1.5	6
138	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
139	A silica monolayer on alumina and evidence of lack of acidity of silanol attached to alumina. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 289.	2.0	17
140	Brownmillerite-type $\text{Ca}_{2}\text{Fe}_{0.75}\text{Co}_{1.25}\text{O}_{5}$ as a Robust Electrocatalyst for Oxygen Evolution Reaction in Neutral Conditions. <i>Sustainable Energy and Fuels</i> , 0, , .	4.9	1