Nobuyuki Ichikuni

List of Publications by Year
in descending order

124 papers	4,017 citations	147801 31 h-index	128289 60 g-index
133 all docs	133 docs citations	133 times ranked	5109 citing authors

#	Article	IF	Citations
1	Effect of Electronic Structures of Au Clusters Stabilized by Poly(N-vinyl-2-pyrrolidone) on Aerobic Oxidation Catalysis. Journal of the American Chemical Society, 2009, 131, 7086-7093.	13.7	615
2	Colloidal Gold Nanoparticles as Catalyst for Carbonâ"Carbon Bond Formation:Â Application to Aerobic Homocoupling of Phenylboronic Acid in Water. Langmuir, 2004, 20, 11293-11296.	3.5	356
3	Capillary Condensation of N2 on Multiwall Carbon Nanotubes. Journal of Physical Chemistry B, 1998, 102, 4689-4692.	2.6	156
4	Microfluidic Synthesis and Catalytic Application of PVP-Stabilized, âˆ¼1 nm Gold Clusters. Langmuir, 2008, 24, 11327-11330.	3.5	132
5	Opening Mechanism of Internal Nanoporosity of Single-Wall Carbon Nanohorn. Journal of Physical Chemistry B, 2005, 109, 14319-14324.	2.6	130
6	A New Binding Motif of Sterically Demanding Thiolates on a Gold Cluster. Journal of the American Chemical Society, 2012, 134, 14295-14297.	13.7	122
7	Highly efficient and selective hydrogenation of unsaturated carbonyl compounds using Niâ€"Sn alloy catalysts. Catalysis Science and Technology, 2012, 2, 2139.	4.1	116
8	Hydrogenation of CO2 over sprayed Ru/TiO2 fine particles and strong metalâ€"support interaction. Applied Catalysis A: General, 1999, 180, 227-235.	4.3	106
9	Selective Photocatalytic Oxidation of Alcohols to Aldehydes in Water by TiO₂ Partially Coated with WO₃. Chemistry - A European Journal, 2011, 17, 9816-9824.	3.3	99
10	Preparation of Au/TiO2 catalysts by suspension spray reaction method and their catalytic property for CO oxidation. Applied Catalysis A: General, 2003, 246, 87-95.	4.3	94
11	Selective synthesis of organogold magic clusters Au54(Cî€,CPh)26. Chemical Communications, 2012, 48, 6085.	4.1	91
12	Structure and catalytic combustion activity of atomically dispersed Pt species at MgO surface. Applied Catalysis A: General, 1999, 188, 313-324.	4.3	86
13	Catalytic properties of sprayed Ru/Al2O3 and promoter effects of alkali metals in CO2 hydrogenation. Applied Catalysis A: General, 1998, 172, 351-358.	4.3	80
14	Ni/Mgo catalyst prepared using citric acid for hydrogenation of carbon dioxide. Applied Catalysis A: General, 1997, 158, 185-199.	4.3	78
15	Ni/SiO2 prepared by solâ€"gel process using citric acid. Microporous and Mesoporous Materials, 2003, 66, 197-208.	4.4	58
16	A new method for quantitative characterization of adsorbed hydrogen on Pt particles by means of Pt L-edge XANES. Chemical Physics Letters, 1996, 256, 445-448.	2.6	57
17	Creation of highly stable monomeric Pd(II) species in an anion-exchangeable hydroxy double salt interlayer: Application to aerobic alcohol oxidation under an air atmosphere. Green Chemistry, 2009, 11, 2034.	9.0	51
18	Asymmetric hydrogenation of Î±,Î²-unsaturated carboxylic acid esters by rhodium(I) â€" phosphine complexes supported on smectites. Journal of Molecular Catalysis A, 1996, 107, 297-303.	4.8	49

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19	In situ d electron density of Pt particles on supports by XANES. Catalysis Letters, 1993, 20, 87-95.	2.6	45
20	Lewis Acid Catalysis of TiO₄ Tetrahedra on Mesoporous Silica in Water. ACS Catalysis, 2014, 4, 1198-1204.	11.2	45
21	Characterization of CuMn-spinel catalyst for methanol steam reforming. Catalysis Communications, 2009, 10, 1800-1803.	3.3	42
22	EXAFS study on interfacial structure between Pd cluster and n-octadecanethiolate monolayer: formation of mixed Pdâ€“S interlayer. Chemical Physics Letters, 2003, 376, 26-32.	2.6	40
23	High-yield synthesis of PVP-stabilized small Pt clusters by microfluidic method. Catalysis Today, 2012, 183, 101-107.	4.4	40
24	Synthesis of 1,5â€Pentanediol by Hydrogenolysis of Furfuryl Alcohol over Niâ€“Y₂O₃ Composite Catalyst. ChemCatChem, 2017, 9, 2869-2874.	3.7	40
25	Preparation of clay-supported Sn catalysts and application to Baeyerâ€“Villiger oxidation. Green Chemistry, 2012, 14, 771.	9.0	39
26	One-pot selective conversion of C5-furan into 1,4-pentanediol over bulk Niâ€“Sn alloy catalysts in an ethanol/H2O solvent mixture. Green Chemistry, 2019, 21, 2307-2315.	9.0	38
27	Efficient hydrogenation of levulinic acid in water using a supported Niâ€“Sn alloy on aluminium hydroxide catalysts. Catalysis Science and Technology, 2016, 6, 2955-2961.	4.1	37
28	Selective hydrogenation of unsaturated carbonyls by Niâ€“Fe-based alloy catalysts. Catalysis Science and Technology, 2017, 7, 3637-3646.	4.1	37
29	Photoexcited Electrons Driven by Doping Concentration Gradient: Flux-Prepared NaTaO₃ Photocatalysts Doped with Strontium Cations. ACS Catalysis, 2018, 8, 9334-9341.	11.2	36
30	Asymmetric hydrogenation of itaconates by hectorite-intercalated Rh-DIOP complex. Journal of Molecular Catalysis A, 1999, 137, 263-267.	4.8	33
31	CO2 hydrogenation activity and surface structure of zeolite-supported Rh catalysts. Applied Catalysis A: General, 1998, 173, 47-60.	4.3	31
32	Size-Controlled Synthesis of Gold Clusters as Efficient Catalysts for Aerobic Oxidation. Catalysis Surveys From Asia, 2011, 15, 230-239.	2.6	31
33	Oxidative cleavage of isoeugenol to vanillin under molecular oxygen catalysed by cobalt porphyrin intercalated into lithium taeniolite clay. Journal of Molecular Catalysis A, 2012, 361-362, 72-79.	4.8	31
34	Promoting effect of NiAl2O4 for supported Ni particles on sprayed Ni/Al2O3 catalysts. Catalysis Letters, 2000, 69, 33-36.	2.6	30
35	A Novel Preparation Method of Niâ€“Sn Alloy Catalysts Supported on Aluminium Hydroxide: Application to Chemoselective Hydrogenation of Unsaturated Carbonyl Compounds. Chemistry Letters, 2012, 41, 769-771.	1.3	29
36	Local Environment of Strontium Cations Activating NaTaO₃ Photocatalysts. ACS Catalysis, 2018, 8, 880-885.	11.2	29

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37	Surface structures and catalytic properties of supported niobium oxides. Catalysis Today, 1996, 28, 49-58.	4.4	28
38	Regioselective hydrogenation of dienes catalyzed by palladiumâ€“aminosilane complexes grafted on MCM-41. Journal of Molecular Catalysis A, 2002, 182-183, 343-350.	4.8	26
39	Double Doping of NaTaO₃ Photocatalysts with Lanthanum and Manganese for Strongly Enhanced Visible-Light Absorption. ACS Applied Energy Materials, 2019, 2, 7518-7526.	5.1	26
40	Hemicellulose decomposition and saccharides production from various plant biomass by sulfonated allophane catalyst. Catalysis Today, 2011, 164, 415-418.	4.4	25
41	Electron Population and Water Splitting Activity Controlled by Strontium Cations Doped in KTaO₃ Photocatalysts. Journal of Physical Chemistry C, 2019, 123, 18387-18397.	3.1	25
42	An anionic d-valineâ€“palladium(ii) complex supported on a hydroxy double salt with a BrÃ¸nsted basic phosphate anion: application for a heterogeneous catalyst toward aerobic alcohol oxidation. Catalysis Science and Technology, 2011, 1, 1376.	4.1	23
43	Efficient 1,4-Addition of Enones and Boronic Acids Catalyzed by a Niâ€“Zn Hydroxyl Double Salt-Intercalated Anionic Rhodium(III) Complex. ACS Catalysis, 2014, 4, 4040-4046.	11.2	23
44	The atomic-scale structure of LaCrO₃â€“NaTaO₃ solid solution photocatalysts with enhanced electron population. Physical Chemistry Chemical Physics, 2019, 21, 5148-5157.	2.8	23
45	Characterization of Rh Particles and Li-Promoted Rh Particles in Y Zeolite during CO2 Hydrogenationâ€”A New Mechanism for Catalysis Controlled by the Dynamic Structure of Rh Particles and the Li Additive Effect. Journal of Catalysis, 2000, 194, 91-104.	6.2	22
46	Enhanced oxygen reduction activity of platinum subnanocluster catalysts through charge redistribution. Chemical Communications, 2019, 55, 12603-12606.	4.1	22
47	Hydrogenolysis of Furfural into 1,5-Pentanediol by Employing Ni-M (M = Y or La) Composite Catalysts. Chemistry Letters, 2017, 46, 744-746.	1.3	21
48	Structures and catalysis of new Nb dimers on SiO2. Catalysis Today, 1993, 16, 427-434.	4.4	20
49	Acceptorless dehydrogenation of alcohols using Cuâ€“Fe catalysts prepared from Cuâ€“Fe layered double hydroxides as precursors. Catalysis Science and Technology, 2018, 8, 3010-3014.	4.1	20
50	Development of Nanoporous Ni-Sn Alloy and Application for Chemoselective Hydrogenation of Furfural to Furfuryl Alcohol. Bulletin of Chemical Reaction Engineering and Catalysis, 2014, 9, 53-59.	1.1	19
51	Dopant site in indium-doped SrTiO₃ photocatalysts. Physical Chemistry Chemical Physics, 2020, 22, 19178-19187.	2.8	19
52	Water-Splitting Activity of La-Doped NaTaO₃ Photocatalysts Sensitive to Spatial Distribution of Dopants. Journal of Physical Chemistry C, 2020, 124, 15285-15294.	3.1	19
53	Lewis Acid and Base Catalysis of YNbO 4 Toward Aqueousâ€Phase Conversion of Hexose and Triose Sugars to Lactic Acid in Water. ChemCatChem, 2020, 12, 350-359.	3.7	18
54	Selective Production of Xylose and Xylo-oligosaccharides from Bamboo Biomass by Sulfonated Allophane Solid Acid Catalyst. Chemistry Letters, 2009, 38, 1176-1177.	1.3	17

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55	Size Control of Catalytic Reaction Space by Intercalation of Alkylcarboxylate Anions into Niâ€“Zn Mixed Basic Salt Interlayer: Application for Knoevenagel Reaction in Water. Chemistry Letters, 2010, 39, 304-305.	1.3	17
56	Studies on tris(Î²-diketonato)zirconium (IV); syntheses, characterization and catalytic activity for ring opening of oxiranes. Catalysis Communications, 2005, 6, 426-430.	3.3	15
57	Highly efficient alcohol oxidation catalyzed by palladium(II)â€“alkylamine complexes using atmospheric molecular oxygen. Journal of Molecular Catalysis A, 2008, 282, 28-33.	4.8	15
58	Efficiently Recyclable and Easily Separable Ni-Fe Alloy Catalysts for Chemoselective Hydrogenation of Biomass-derived Furfural. Chemistry Letters, 2017, 46, 149-151.	1.3	15
59	Visible light responsive La and Fe co-doped NaTaO3 photocatalysts: Local structure around dopants. Chemical Physics, 2020, 531, 110648.	1.9	15
60	Chemoselective Hydrogenation of Unsaturated Nitro Compounds to Unsaturated Amines by Ni-Sn Alloy Catalysts. Chemistry Letters, 2018, 47, 971-974.	1.3	14
61	Recent progress in EXAFS/NEXAFS spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 375-381.	1.7	13
62	Highly Catalytic Performance of La₂O₃ in the Selective Transfer Hydrogenation of Biomass-derived Furfural. Chemistry Letters, 2017, 46, 1580-1583.	1.3	13
63	Recyclable Pd-contained perovskite catalyst synthesized by a low temperature hydrothermal method for aerobic alcohol oxidation. Molecular Catalysis, 2018, 453, 132-138.	2.0	13
64	XAFS and HAADF STEM combined characterization for size regulated Ni nanocluster catalyst and its unique size dependence for water gas shift reaction. Applied Catalysis A: General, 2014, 478, 66-70.	4.3	12
65	Epoxidation of cyclic enones with hydrogen peroxide catalysed by alkylcarboxylate-intercalated Niâ€“Zn mixed basic salts. Catalysis Science and Technology, 2015, 5, 578-583.	4.1	12
66	Hydrogenolysis of Tetrahydrofurfuryl Alcohol to 1,5-Pentanediol over a Nickel-Yttrium Oxide Catalyst Containing Ruthenium. Chemistry Letters, 2018, 47, 103-106.	1.3	12
67	Preparation and catalytic properties of a new SiO2-attached Nb-dimer catalyst: regulation of acidityâ€“basicity by the number of metal atoms in surface active sites. Journal of the Chemical Society Chemical Communications, 1991, , 112-113.	2.0	11
68	CO2 hydrogenation over microâ€•and mesoporous oxides supported Ru catalysts. Catalysis Letters, 1999, 60, 125-132.	2.6	11
69	New application of spray reaction technique to the preparation of supported gold catalysts for environmental catalysis. Journal of Molecular Catalysis A, 2002, 182-183, 209-214.	4.8	11
70	Study on the selectivity of propane photo-oxidation reaction on SBA-15 supported Mo oxide catalyst. Catalysis Today, 2016, 265, 90-94.	4.4	11
71	Kaolinite Catalyst for the Production of a Biodiesel-Based Compound from Biomass-Derived Furfuryl Alcohol. ACS Applied Energy Materials, 2018, 1, 2460-2463.	5.1	11
72	Chemoselective Hydrogenation of 4-Nitrostyrene to 4-Aminostyrene by Highly Efficient TiO2 Supported Ni3Sn2 Alloy Catalyst. Bulletin of the Chemical Society of Japan, 2019, 92, 811-816.	3.2	11

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73	One-pot synthesis of aniline N-alkylation from benzyl alcohol over Cu-Fe catalyst. Applied Catalysis A: General, 2020, 602, 117519.	4.3	11
74	Characterization of Heat-Treated Synthetic Imogolite by 27Al MAS and 27Al MQMAS Solid-State NMR. Bulletin of the Chemical Society of Japan, 2011, 84, 656-659.	3.2	10
75	The role of the shell in coreâ€“shell-structured La-doped NaTaO₃ photocatalysts. Physical Chemistry Chemical Physics, 2021, 23, 8868-8879.	2.8	10
76	Observation of the Structural Change in the Nb Sites during Ethanol Dehydration on a SiO2-Attached Nb Dimer Catalyst by EXAFS. The Journal of Physical Chemistry, 1994, 98, 11576-11581.	2.9	9
77	New Clay-Supported Chiral Rhodium Complexes: Interlayer Modification with Structural Tuning Guests and Asymmetric Hydrogenation. Chemistry Letters, 1998, 27, 1191-1192.	1.3	9
78	Synthesis of Novel Nano-structured Clays: Unique Conformation of Pillar Complexes. Chemistry Letters, 2004, 33, 208-209.	1.3	9
79	CaO-catalyzed Aerobic Oxidation of Î±-Hydroxy Ketones: Application to One-pot Synthesis of Quinoxaline Derivatives. Chemistry Letters, 2012, 41, 488-490.	1.3	9
80	Hydrophenylation of internal alkynes with boronic acids catalysed by a Niâ€“Zn hydroxy double salt-intercalated anionic rhodium(<scp>iii</scp>) complex. Catalysis Science and Technology, 2016, 6, 863-868.	4.1	9
81	Study on the promoting effect of nickel silicate for 1-phenylethanol oxidation on supported NiO nanocluster catalysts. Catalysis Today, 2018, 307, 29-34.	4.4	9
82	Artificially Designed Compositionally Graded Sr-Doped NaTaO₃ Single-Crystalline Thin Films and the Dynamics of Their Photoexcited Electronâ€“Hole Pairs. Chemistry of Materials, 2021, 33, 226-233.	6.7	9
83	Creation of Highly Reducible CuO Species by High-Temperature Calcination of a Cu-Al Layered Double Hydroxide: Selective Hydrogenation of Furfural into Furfuryl Alcohol with Formic Acid. Bulletin of the Chemical Society of Japan, 2022, 95, 121-128.	3.2	9
84	Recyclable Pd-Incorporated Perovskite-Titanate Catalysts Synthesized in Molten Salts for the Liquid-Phase Oxidation of Alcohols with Molecular Oxygen. Bulletin of the Chemical Society of Japan, 2013, 86, 146-152.	3.2	8
85	Highly Selective Transfer Hydrogenation of Carbonyl Compounds Using La2O3. Bulletin of the Chemical Society of Japan, 2018, 91, 1561-1569.	3.2	8
86	XAFS Analysis for Niobium Carbide Particle Growth on Silica Support During Preparation Process. Topics in Catalysis, 2002, 18, 101-104.	2.8	7
87	Preparation of supported NbC catalysts from peroxoniobic acid and in situ XAFS characterization. Applied Catalysis A: General, 2008, 343, 25-28.	4.3	7
88	Promotional Effect of Iron for the Nitridation of Niobium Oxide to Niobium Nitride. Topics in Catalysis, 2009, 52, 1517-1524.	2.8	7
89	Preparation and Catalysis of Supported NiO Nanocluster for Oxidative Coupling of Thiophenol. Transactions of the Materials Research Society of Japan, 2012, 37, 177-180.	0.2	7
90	In Situ Generation of Catalytically Active Cu0 Species Derived from Cu-Al Layered Double Hydroxides for Acceptorless Alcohol Dehydrogenation. Chemistry Letters, 2022, 51, 334-337.	1.3	7

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91	Characterization and catalytic performance of designed surfaces. Journal of Molecular Catalysis A, 2000, 158, 67-83.	4.8	6
92	Activation of Bulk MoO3Catalysts by Spray Reaction Method for Propene Photometathesis Reaction. Catalysis Letters, 2004, 93, 177-180.	2.6	6
93	Selective synthesis of primary methoxypropanol using clay supported tris(2,4-pentanedionato)zirconium(IV). Journal of Molecular Catalysis A, 2004, 221, 141-144.	4.8	6
94	Effect of Local Structure of Mo Oxide on Selective Photo-Oxidation of Propane to Acetone. Catalysis Letters, 2013, 143, 154-158.	2.6	6
95	Enhanced oxygen reduction activity of size-selected platinum subnanocluster catalysts: Pt_n (n = 3â€“9). Catalysis Science and Technology, 2022, 12, 1400-1407.	4.1	6
96	X-ray absorption fine structure study on residue bromine in carbons with different degrees of graphitization. Carbon, 2003, 41, 2931-2938.	10.3	5
97	Effect of Co addition for carburizing process of Ti-oxide/SiO2 into TiC/SiO2. Applied Catalysis A: General, 2007, 323, 104-109.	4.3	5
98	Synergistic Effect in Ir- or Pt-Doped Ru Nanoparticles: Catalytic Hydrogenation of Carbonyl Compounds under Ambient Temperature and H₂ Pressure. ACS Catalysis, 2021, 11, 10502-10507.	11.2	5
99	Size Control of Ni Nanocluster by the Carbon Chain Length of Secondary Alkoxide. E-Journal of Surface Science and Nanotechnology, 2012, 10, 648-650.	0.4	5
100	Reversible structural change of Rh particles supported on GeO2 submonolayersâ€“SiO2 in reduction and oxidation by XAFS, XRD, TEM and FTIR. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3217-3227.	1.7	4
101	Regioselective Ring Opening Reactions of Oxiranes with Acrylic Acid by Clay Supported Zirconium .BETA.-Diketonate Catalysts. Journal of Ion Exchange, 2007, 18, 584-589.	0.3	4
102	Preparation of a Highly Stable Pd-Perovskite Catalyst for Suzuki Couplings via a Low-Temperature Hydrothermal Treatment. ACS Omega, 2018, 3, 17528-17531.	3.5	4
103	Preparation of Mesoporous Silica Supported Nb Catalysts and in-situ XAFS Characterization During Carburization Process. Physica Scripta, 2005, , 807.	2.5	4
104	Suspended Spray Reaction for Preparation of Ru/Al2O3Catalyst. Chemistry Letters, 2000, 29, 652-653.	1.3	3
105	Nickel Oxide Particles Coated with Silica. Bulletin of the Chemical Society of Japan, 2002, 75, 2297-2304.	3.2	3
106	Preparation of mesoporous silica anchored mo catalysts and in-situ XAFS characterization under propene photometathesis reaction. Studies in Surface Science and Catalysis, 2003, , 359-362.	1.5	3
107	Development of Supported NiO Nanocluster for Aerobic Oxidation of 1-Phenylethanol and Elucidation of Reaction Mechanism via X-ray Analysis. Bulletin of the Chemical Society of Japan, 2019, 92, 840-846.	3.2	3
108	Chemoselective synthesis of imine and secondary amine from nitrobenzene and benzaldehyde by Ni3Sn2 alloy catalyst supported on TiO2. Molecular Catalysis, 2021, 505, 111503.	2.0	3

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109	Dependence of Photoexcited Electron Behavior on Octahedral Distortion in Barium-Doped NaTaO₃ Photocatalysts. Journal of Physical Chemistry C, 2021, 125, 16403-16412.	3.1	3
110	EXAFS Observation of Li Additive Effect on Structure of Rh Particles Supported on Zeolite. Japanese Journal of Applied Physics, 1999, 38, 81.	1.5	3
111	Specific lift-up behaviour of acetate-intercalated layered yttrium hydroxide interlayer in water: application for heterogeneous BrÃ¸nsted base catalysts toward Knoevenagel reactions. Catalysis Science and Technology, 2022, 12, 2061-2070.	4.1	3
112	The Effect of Li on Structure of Supported Rh Particles in Zeolite. Molecular Crystals and Liquid Crystals, 2000, 341, 473-478.	0.3	2
113	Characteristics of supported gold catalysts prepared by spray reaction method. Studies in Surface Science and Catalysis, 2001, , 769-772.	1.5	2
114	Multinuclear Solid-State NMR Study of Allophane. Bulletin of the Chemical Society of Japan, 2012, 85, 372-375.	3.2	2
115	Formation and dichroism of poly(vinyl alcohol)â€“iodine complex in photocurable film. Polymers for Advanced Technologies, 2015, 26, 338-344.	3.2	2
116	The catalytic oxidation of 1-phenylethanol over SiO2 supported manganese oxide nanocluster prepared by PVP stabilized colloidal Mn as precursor. Catalysis Today, 2020, 352, 250-254.	4.4	2
117	Asymmetric Hydrogenation of Acetophenone by Rh(I)-BINAP Supported on Smectites with Various Interlayer Distances. Journal of Ion Exchange, 2003, 14, 397-400.	0.3	2
118	A novel effect of Li additive: dynamic control of Rh mobility during CO2 hydrogenation reaction. Studies in Surface Science and Catalysis, 2000, 130, 3759-3764.	1.5	1
119	Multiple Scattering Approach to Au L3edge XANES of sprAuAl2O3 Catalyst. Physica Scripta, 2005, , 756.	2.5	1
120	In-Situ XAFS Characterization for Nitriding Process of Silica Supported Nb Catalysts Under N2-H2 Gas. AIP Conference Proceedings, 2007, , .	0.4	1
121	XAFS Study of the Photo-Active Site of Mo/MCM-41. AIP Conference Proceedings, 2007, , .	0.4	1
122	Hydrogenation of CO2 over Rh ion exchanged zeolite catalysts. Studies in Surface Science and Catalysis, 1998, , 455-458.	1.5	0
123	Structural Analysis of PhotoChemically Anchored Molybdenum Oxide Catalysts by EXAFS. Physica Scripta, 2005, , 825.	2.5	0
124	Enhancement of Oxidative Dehydrogenation of Alcohols by Utilizing Hydrotalcite as Support of NiO Nanocluster Catalyst. Chemistry Letters, 2019, 48, 374-377.	1.3	0