Masaaki Haneda

List of Publications by Year
in descending order

175 papers	4,371 citations	81900 39 h-index	144013 57 g-index
177 all docs	177 docs citations	177 times ranked	3426 citing authors

#	Article	IF	Citations
1	Enhanced oxygen storage capacity of cerium oxides in cerium dioxide/lanthanum sesquioxide/alumina containing precious metals. The Journal of Physical Chemistry, 1990, 94, 6464-6467.	2.9	216
2	Alkali metal-doped cobalt oxide catalysts for NO decomposition. Applied Catalysis B: Environmental, 2003, 46, 473-482.	20.2	168
3	A review of selective catalytic reduction of nitrogen oxides with hydrogen and carbon monoxide. Applied Catalysis A: General, 2012, 421-422, 1-13.	4.3	138
4	Infrared study of catalytic reduction of nitrogen monoxide by propene over Ag/TiO2â€“ZrO2. Catalysis Today, 1998, 42, 127-135.	4.4	112
5	Influence of co-cations on the formation of Cu+ species in Cu/ZSM-5 and its effect on selective catalytic reduction of NOx with NH3. Applied Catalysis B: Environmental, 2010, 101, 61-67.	20.2	111
6	Remarkable promoting effect of rhodium on the catalytic performance of Ag/Al2O3 for the selective reduction of NO with decane. Applied Catalysis B: Environmental, 2003, 44, 67-78.	20.2	94
7	Selective catalytic reduction of NOx with NH3 over different copper exchanged zeolites in the presence of decane. Catalysis Today, 2011, 164, 495-499.	4.4	94
8	Enhanced activity of in and Ga-supported sol-gel alumina catalysts for NO reduction by hydrocarbons in lean conditions. Applied Catalysis B: Environmental, 1998, 15, 291-304.	20.2	86
9	Promotional effect of SO2 on the activity of Ir/SiO2 for NO reduction with CO under oxygen-rich conditions. Journal of Catalysis, 2005, 229, 197-205.	6.2	83
10	Effect of platinum dispersion on the catalytic activity of Pt/Al2O3 for the oxidation of carbon monoxide and propene. Applied Catalysis B: Environmental, 2013, 142-143, 8-14.	20.2	82
11	Selective Reduction of NO with Propene over Ga2O3â€“Al2O3: Effect of Solâ€“Gel Method on the Catalytic Performance. Journal of Catalysis, 2000, 192, 137-148.	6.2	79
12	Catalytic performance of rhodium supported on ceriaâ€“zirconia mixed oxides for reduction of NO by propene. Journal of Catalysis, 2008, 259, 223-231.	6.2	71
13	In Situ Fourier Transform Infrared Study of the Selective Reduction of NO with Propene over Ga2O3â€“Al2O3. Journal of Catalysis, 2002, 206, 114-124.	6.2	66
14	Activity enhancement of SnO2-doped Ga2O3â€“Al2O3 catalysts by coexisting H2O for the selective reduction of NO with propene. Applied Catalysis B: Environmental, 1999, 20, 289-300.	20.2	64
15	Core-shell type ceria zirconia support for platinum and rhodium three way catalysts. Catalysis Today, 2017, 281, 482-489.	4.4	64
16	Effect of Pd dispersion on the catalytic activity of Pd/Al2O3 for C3H6 and CO oxidation. Catalysis Today, 2017, 281, 447-453.	4.4	62
17	Three way catalytic activity of thermally degenerated Pt/Al2O3 and Pt/CeO2â€“ZrO2 modified Al2O3 model catalysts. Catalysis Today, 2015, 242, 329-337.	4.4	61
18	Reaction mechanism of NO decomposition over alkali metal-doped cobalt oxide catalysts. Applied Catalysis B: Environmental, 2005, 55, 169-175.	20.2	59

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19	Structure of Ga2O3-Al2O3 prepared by solâ€“gel method and its catalytic performance for NO reduction by propene in the presence of oxygen. Applied Catalysis B: Environmental, 2001, 31, 81-92.	20.2	55
20	NOx abatement for lean-burn engines under leanâ€“rich atmosphere over mixed NSR-SCR catalysts: Influences of the addition of a SCR catalyst and of the operational conditions. Applied Catalysis A: General, 2009, 365, 187-193.	4.3	54
21	Positive effect of coexisting SO2 on the activity of supported iridium catalysts for NO reduction in the presence of oxygen. Applied Catalysis B: Environmental, 2003, 41, 157-169.	20.2	52
22	CO oxidation over Pt/Ceâ€“Zr oxide catalysts with low content of platinum and cerium components. Catalysis Today, 2013, 201, 79-84.	4.4	51
23	Synergistic Effect between Pd and Nonstoichiometric Cerium Oxide for Oxygen Activation in Methane Oxidation. Journal of Physical Chemistry B, 1998, 102, 6579-6587.	2.6	49
24	Adsorption and Reactions of NO on Clean and CO-Precovered Ir(111). Journal of Physical Chemistry B, 2005, 109, 17603-17607.	2.6	48
25	A CO Adsorption Site Change Induced by Copper Substitution in a Ruthenium Catalyst for Enhanced CO Oxidation Activity. Angewandte Chemie - International Edition, 2019, 58, 2230-2235.	13.8	48
26	Structural Characterization and Catalytic Behavior of Al2O3-Supported Cerium Oxides. Bulletin of the Chemical Society of Japan, 1993, 66, 1279-1288.	3.2	46
27	Silica-supported cobalt catalysts for the selective reduction of nitrogen monoxide with propene. Catalysis Letters, 1996, 39, 269-274.	2.6	45
28	Modification of CeO2 on the redox property of Fe2O3. Materials Letters, 2013, 93, 129-132.	2.6	45
29	Improved three-way catalytic activity of bimetallic Irâ€“Rh catalysts supported on CeO₂â€“ZrO₂. Catalysis Science and Technology, 2015, 5, 1792-1800.	4.1	45
30	CeO2Ã¢â,¬â€œZrO2 binary oxides for NO x removal by sorption. Physical Chemistry Chemical Physics, 2001, 3, 4696-4700.	2.8	44
31	Effect of SO2 on the catalytic activity of Ga2O3â€“Al2O3 for the selective reduction of NO with propene in the presence of oxygen. Applied Catalysis B: Environmental, 2001, 31, 251-261.	20.2	43
32	Study by in situ FTIR spectroscopy of the SCR of NOx by ethanol on Ag/Al2O3â€”Evidence of the role of isocyanate species. Journal of Catalysis, 2003, , .	6.2	43
33	Mechanistic study of the effect of coexisting H2O on the selective reduction of NO with propene over solâ€“gel prepared In2O3-Al2O3 catalyst. Applied Catalysis B: Environmental, 2003, 42, 57-68.	20.2	41
34	Effect of iridium dispersion on the catalytic activity of Ir/SiO2 for the selective reduction of NO with CO in the presence of O2 and SO2. Journal of Molecular Catalysis A, 2006, 256, 143-148.	4.8	41
35	Cooperative effect of Ptâ€“Rh/Ba/Al and CuZSM-5 catalysts for NO reduction during periodic lean-rich atmosphere. Catalysis Communications, 2008, 10, 137-141.	3.3	41
36	Catalytic performance of supported Ag nano-particles prepared by liquid phase chemical reduction for soot oxidation. Catalysis Today, 2015, 242, 351-356.	4.4	41

#	Article	IF	Citations
37	Title is missing!. Catalysis Letters, 1998, 55, 47-55.	2.6	40
38	Surface reactivity of prereduced rare earth oxides with nitric oxide: New approach for NO decomposition. Physical Chemistry Chemical Physics, 2002, 4, 3146-3151.	2.8	40
39	Recent progress in catalytic NO decomposition. Comptes Rendus Chimie, 2016, 19, 1254-1265.	0.5	40
40	Deactivation Mechanism of Pd/CeO₂â€“ZrO₂Three-Way Catalysts Analyzed by Chassis-Dynamometer Tests and<i>in Situ</i>Diffuse Reflectance Spectroscopy. ACS Catalysis, 2019, 9, 6415-6424.	11.2	40
41	Remarkable promoting effect of coexisting SO2 on the catalytic activity of Ir/SiO2 for NO reduction in the presence of oxygen. Catalysis Communications, 2001, 2, 155-158.	3.3	39
42	Influence of Al2O3 support on the activity of Ag/Al2O3 catalysts for SCR of NO with decane. Catalysis Letters, 2007, 114, 96-102.	2.6	39
43	Ir/SiO2 as a highly active catalyst for the selective reduction of NO with CO in the presence of O2 and SO2. Chemical Communications, 2003, , 2814.	4.1	38
44	SCR of NO with NH3 over Cu/NaZSM-5 and Cu/HZSM-5 in the presence of decane. Catalysis Communications, 2009, 10, 1859-1863.	3.3	38
45	Reaction intermediates in the selective reduction of NO with propene over Ga2O3-Al2O3 and In2O3-Al2O3 catalysts. Journal of Molecular Catalysis A, 2001, 175, 179-188.	4.8	37
46	Microstructure and oxygen evolution of Feâ€“Ce mixed oxides by redox treatment. Applied Surface Science, 2014, 289, 378-383.	6.1	37
47	Surface characterization of alumina-supported catalysts prepared by solâ€“gel method. Part I. Acidâ€“base properties. Physical Chemistry Chemical Physics, 2001, 3, 1366-1370.	2.8	33
48	Effect of surface structure of supported palladium catalysts on the activity for direct decomposition of nitrogen monoxide. Journal of Catalysis, 2003, 218, 405-410.	6.2	33
49	Enhanced activity of Ba-doped Ir/SiO2 catalyst for NO reduction with CO in the presence of O2 and SO2. Catalysis Communications, 2006, 7, 423-426.	3.3	32
50	Improved activity of Rh/CeO2â€“ZrO2 three-way catalyst by high-temperature ageing. Catalysis Communications, 2010, 11, 317-321.	3.3	32
51	Direct Decomposition of NO Over Alkaline Earth Metal Oxide Catalysts Supported on Cobalt Oxide. Catalysis Letters, 2004, 97, 145-150.	2.6	31
52	Behaviour of oxygen species adsorbed on Al2O3-supported cerium oxide catalysts for methane oxidation. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 4459.	1.7	30
53	Propene oxidation over palladium catalysts supported on zirconium rich ceriaâ€“zirconia. Catalysis Today, 2015, 241, 100-106.	4.4	30
54	Kinetics and mechanism of NO reduction with CO on Ir surfaces. Journal of Catalysis, 2008, 253, 139-147.	6.2	29

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55	Promotional role of H2O in the selective catalytic reduction of NO with CO over Ir/WO3/SiO2 catalyst. Journal of Catalysis, 2010, 273, 39-49.	6.2	29
56	Catalytic performance of bimetallic PtPd/Al2O3 for diesel hydrocarbon oxidation and its implementation by acidic additives. Applied Catalysis A: General, 2014, 475, 109-115.	4.3	29
57	Highly active, robust and reusable micro-/mesoporous TiN/Si3N4 nanocomposite-based catalysts for clean energy: Understanding the key role of TiN nanoclusters and amorphous Si3N4 matrix in the performance of the catalyst system. Applied Catalysis B: Environmental, 2020, 272, 118975.	20.2	28
58	Catalytic Performance of Aged Rh/CeO2â€"ZrO2 for NOâ€"C3H6â€"O2 Reaction Under a Stoichiometric Condition. Topics in Catalysis, 2009, 52, 1868-1872.	2.8	26
59	Preparation of niobium oxide films as a humidity sensor. Catalysis Today, 1993, 16, 495-501.	4.4	25
60	Additive Effect of Silver on the Catalytic Activity of TiO2â€"ZrO2for the Selective Reduction of NO with Propene, 2-Propanol, and Acetone. Bulletin of the Chemical Society of Japan, 1997, 70, 499-508.	3.2	25
61	Enhancement of OSC property of Zr rich ceriaâ€"zirconia by loading a small amount of platinum. Catalysis Today, 2014, 232, 179-184.	4.4	25
62	Studies on Active Species for Selective Catalytic Reduction of NO on Alumina-Supported Cobalt Oxide Catalysts. Bulletin of the Chemical Society of Japan, 1998, 71, 2331-2337.	3.2	24
63	Promotive effect of Nb2O5 on the catalytic activity of Ir/SiO2 for NO reduction with CO under oxygen-rich conditions. Catalysis Communications, 2007, 8, 885-888.	3.3	24
64	Catalytic performance of silver- and indium-supported TiO2î—¸ZrO2 binary oxide for the selective reduction of nitrogen monoxide with propene. Applied Surface Science, 1997, 121-122, 391-395.	6.1	23
65	Enhanced activity of metal oxide-doped Ga2O3â€"Al2O3 for NO reduction by propene. Catalysis Today, 1999, 54, 391-400.	4.4	23
66	Role of tungsten in promoting selective reduction of NO with CO over Ir/WO3â€"SiO2 catalysts. Catalysis Letters, 2006, 112, 133-138.	2.6	23
67	Catalytic performance of silver ion-exchanged saponite for the selective reduction of nitrogen monoxide in the presence of excess oxygen. Applied Catalysis B: Environmental, 1997, 13, 27-33.	20.2	22
68	Comprehensive study combining surface science and real catalyst for NO direct decomposition. Chemical Communications, 2002, , 2816-2817.	4.1	22
69	Catalytic Active Site for NO Decomposition Elucidated by Surface Science and Real Catalyst. Catalysis Surveys From Asia, 2005, 9, 207-215.	2.6	22
70	Zn-promoted Rh/SiO2 catalyst for the selective reduction of NO with H2 in the presence of O2 and SO2. Applied Catalysis B: Environmental, 2005, 60, 41-47.	20.2	21
71	Ga2O3/Al2O3Prepared by Sol-Gel Method as a Highly Active Metal Oxide-Based Catalyst for NO Reduction by Propene in the Presence of Oxygen, H2O and SO2. Chemistry Letters, 1998, 27, 181-182.	1.3	19
72	Rh-post-doped Ag/Al2O3 as a highly active catalyst for the selective reduction of NO with decane. Catalysis Communications, 2003, 4, 315-319.	3.3	19

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73	Adsorption and reactivity of SO2 on Ir(111) and Rh(111). Surface Science, 2007, 601, 1615-1622.	1.9	19
74	Total oxidation of toluene and oxygen storage capacity of zirconia-sol modified ceria zirconia. Catalysis Communications, 2013, 30, 32-35.	3.3	19
75	Direct decomposition of NO on Ba catalysts supported on rare earth oxides. Journal of Molecular Catalysis A, 2014, 383-384, 70-76.	4.8	19
76	Platinum-Based Catalyst for Diesel Hydrocarbon Oxidation. Chinese Journal of Catalysis, 2011, 32, 777-781.	14.0	18
77	Excellent Promoting Effect of Ba Addition on the Catalytic Activity of Ir/WO3â€“SiO2for the Selective Reduction of NO with CO. Chemistry Letters, 2006, 35, 420-421.	1.3	17
78	Boosting reverse water-gas shift reaction activity of Pt nanoparticles through light doping of W. Journal of Materials Chemistry A, 2021, 9, 15613-15617.	10.3	17
79	Oxygen storage capacity of alumina-supported Rh/CeO2 catalyst.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1990, 1990, 820-823.	0.1	16
80	Direct Decomposition of NO over Supported-alkaline Earth Metal Oxide Catalysts. Journal of the Japan Petroleum Institute, 2005, 48, 53-59.	0.6	16
81	Three-way catalytic performance and change in the valence state of Rh in Y- and Pr-doped Rh/ZrO2 under lean/rich perturbation conditions. Catalysis Communications, 2017, 90, 1-4.	3.3	16
82	Complex Three-Dimensional Co3O4 Nano-Raspberry: Highly Stable and Active Low-temperature CO Oxidation Catalyst. Nanomaterials, 2018, 8, 662.	4.1	16
83	Synthesis of ordered porous zirconia containing sulfate ions and evaluation of its surface acidic properties. Journal of Materials Science, 2017, 52, 5835-5845.	3.7	15
84	Slow Synthesis Methodologyâ€Directed Immiscible Octahedral Pd_{<i>x</i>}Rh_{1âˆ’<i>x</i>} Dualâ€Atomâ€Site Catalysts for Superior Threeâ€Way Catalytic Activities over Rh. Angewandte Chemie - International Edition, 2022, 61, .	13.8	15
85	Role of zeolite structure on NO reduction with diesel fuel over Pt supported zeolite catalysts. Microporous and Mesoporous Materials, 2008, 111, 488-492.	4.4	14
86	High Resistance of Cuâ€“Ferrierite to Coke Formation During NH3-SCR in the Presence of n-Decane. Topics in Catalysis, 2009, 52, 1766-1770.	2.8	14
87	Catalytic performance of Ir/CeO2 for NOâ€“C3H6â€“O2 reaction in a stoichiometric condition. Applied Catalysis A: General, 2011, 394, 239-244.	4.3	14
88	Three-way catalytic performance of Fe-doped Pd/CeO2-ZrO2 under lean/rich perturbation conditions. Applied Catalysis A: General, 2019, 587, 117268.	4.3	14
89	Comprehensive study of the light-off performance and surface properties of engine-aged Pd-based three-way catalysts. Catalysis Science and Technology, 2021, 11, 912-922.	4.1	14
90	Surface characterization of alumina-supported catalysts prepared by solâ€“gel method. Part II. Surface reactivity with CO. Physical Chemistry Chemical Physics, 2001, 3, 1371-1375.	2.8	13

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91	In Situ FT-IR Study of Diesel Hydrocarbon Oxidation Over Pt/Al2O3 Catalyst. Catalysis Letters, 2011, 141, 1262-1267.	2.6	13
92	Preparation, characterization, and activity of SnO2 nanoparticles supported on Al2O3 as a catalyst for the selective reduction of NO with C3H6. Journal of Materials Science, 2016, 51, 10949-10959.	3.7	13
93	Coreduction methodology for immiscible alloys of CuRu solid-solution nanoparticles with high thermal stability and versatile exhaust purification ability. Chemical Science, 2020, 11, 11413-11418.	7.4	13
94	Solâ€“Gel Prepared Snâ€“Al2O3Catalysts for the Selective Reduction of NO with Propene. Bulletin of the Chemical Society of Japan, 2001, 74, 2075-2081.	3.2	12
95	Promoting Effect of Coexisting H2O on the Activity of Ir/WO3/SiO2 Catalyst for the Selective Reduction of NO with CO. Chemistry Letters, 2008, 37, 830-831.	1.3	12
96	Effect of Acidâ€“Base Properties on the Catalytic Activity of Pt/Al2O3 Based Catalysts for Diesel NO Oxidation. Topics in Catalysis, 2013, 56, 205-209.	2.8	12
97	Effect of Pt Dispersion on the Catalytic Activity of Supported Pt Catalysts for Diesel Hydrocarbon Oxidation. Topics in Catalysis, 2013, 56, 249-254.	2.8	12
98	Influence of particle morphology on catalytic performance of CeO₂/ZrO₂ for soot oxidation. Journal of the Ceramic Society of Japan, 2015, 123, 414-418.	1.1	12
99	Effect of Rare Earth Additives on the Catalytic Performance of Rh/ZrO2 Three-Way Catalyst. Topics in Catalysis, 2016, 59, 1059-1064.	2.8	12
100	Uniform distribution of copper and cobalt during the synthesis of SiMFI-5 from kanemite through solid-state transformationElectronic supplementary information (ESI) available: XRD patterns for CoSiMFI and CuSiMFI samples synthesised by SST at various stages in the process and containing different metal loadings. See http://www.rsc.org/suppdata/jm/b2/b207539n/. Journal of Materials Chemistry, 2003, 13, 602-607.	6.7	11
101	A new concept of combined NH3-CO-SCR system for efficient NO reduction in excess oxygen. Applied Catalysis B: Environmental, 2009, 88, 180-184.	20.2	11
102	Oxygen releaseâ€“absorption properties and structural stability of Ce0.8Fe0.2O2â^’x. Journal of Materials Science, 2013, 48, 5733-5743.	3.7	11
103	Effect of Y-stabilized ZrO2 as support on catalytic performance of Pt for n-butane oxidation. Catalysis Today, 2013, 201, 25-31.	4.4	11
104	Effects of the Extent of Silica Doping and the Mesopore Size of an Alumina Support on Activity as a Diesel Oxidation Catalyst. Industrial & Engineering Chemistry Research, 2014, 53, 7992-7998.	3.7	11
105	Catalytic performance of supported Ir catalysts for NO reduction with C 3 H 6 and CO in slight lean conditions. Catalysis Today, 2018, 303, 8-12.	4.4	11
106	A CO Adsorption Site Change Induced by Copper Substitution in a Ruthenium Catalyst for Enhanced CO Oxidation Activity. Angewandte Chemie, 2019, 131, 2252-2257.	2.0	11
107	Direct decomposition of nitrogen monoxide over a K-deposited Co(0001) surface: Comparison to K-doped cobalt oxide catalysts. Journal of Electron Spectroscopy and Related Phenomena, 2006, 150, 150-154.	1.7	10
108	Reaction properties of NO and CO over an Ir(211) surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 1143-1146.	2.1	10

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109	Selective reduction of NO2 with acetaldehyde over Co/Al2O3 in lean conditions. Journal of Molecular Catalysis A, 2007, 261, 6-11.	4.8	10
110	Effect of addition on Y2O3 in ZrO2 support on n-butane Pt catalyzed oxidation. Catalysis Communications, 2012, 19, 74-79.	3.3	10
111	Catalytic and Thermal Behavior of Cerium Oxide Supported onSiO2and Al2O3for Methane Combustion. Bulletin of the Chemical Society of Japan, 1994, 67, 2617-2620.	3.2	9
112	Practical Evaluation of the Catalytic Performance of Ir/SiO2-based Catalysts for Selective Reduction of NO with CO. Topics in Catalysis, 2009, 52, 1803-1807.	2.8	9
113	Activity Enhancement of WO3-Promoted Ir/SiO2 Catalysts by High-Temperature Calcination for the Selective Reduction of NO with CO. Bulletin of the Chemical Society of Japan, 2009, 82, 1023-1029.	3.2	9
114	Promoting Effect of CeO2 on the Catalytic Activity of Rhodium Supported on Y-Stabilized ZrO2 for NOâ€“COâ€“C3H6â€“O2 Reactions. Chemistry Letters, 2013, 42, 60-62.	1.3	9
115	Promoting Effect of Cerium Oxide on the Catalytic Performance of Yttrium Oxide for Oxidative Coupling of Methane. Frontiers in Chemistry, 2018, 6, 581.	3.6	9
116	Spiky-shaped niobium pentoxide nano-architecture: highly stable and recoverable Lewis acid catalyst. Nanotechnology, 2020, 31, 325705.	2.6	9
117	Reaction mechanism of NO direct decomposition over K-promoted Co-Mn-Al mixed oxides â€“ DRIFTS, TPD and transient state studies. Journal of the Taiwan Institute of Chemical Engineers, 2021, 120, 257-266.	5.3	9
118	Additive Effect of Palladium on the Catalytic Activity of In/TiO2â€“ZrO2for the Selective Reduction of Nitrogen Monoxide in the Presence of Water Vapor. Bulletin of the Chemical Society of Japan, 1997, 70, 2171-2178.	3.2	8
119	Effects of Co Ion Dispersion upon Selective Catalytic Reduction of NO on CoO/Al2O3Catalysts. Chemistry Letters, 1997, 26, 887-888.	1.3	8
120	Direct Decomposition of NO over Baâ€“Y2O3 Catalyst Prepared by Coprecipitation. Bulletin of the Chemical Society of Japan, 2011, 84, 1383-1389.	3.2	8
121	Dispersion of Oleate-modified CeO2 Nanocrystals in Non-Polar Solvent and Aqueous Solution. ECS Transactions, 2013, 50, 39-49.	0.5	8
122	Oxygen Storage Capacity(OSC) and Active Oxygen Species of Alumina-Supported Nonstoichiometric Cerium Oxide Catalysts.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1997, 1997, 169-179.	0.1	7
123	N2O Removal by Catalytic Decomposition and Reduction with CH4over Fe/Al2O3. Bulletin of the Chemical Society of Japan, 2003, 76, 2329-2333.	3.2	7
124	Enhancing Effect of H2 on the Selective Reduction of NO with CO over Ba-doped Ir/WO3/SiO2 Catalyst. Catalysis Letters, 2007, 118, 159-164.	2.6	7
125	Oxidative coupling of methane over Ba-doped Y2O3 catalystâ€"Similarity with active site for direct decomposition of NO. Molecular Catalysis, 2018, 457, 74-81.	2.0	7
126	Nitrile hydrogenation to secondary amines under ambient conditions over palladiumâ€“platinum random alloy nanoparticles. Catalysis Science and Technology, 2022, 12, 4128-4137.	4.1	7

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127	Selective Reduction of NO with Methane over Alumina-Supported Palladium Catalysts.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 2000, 2000, 467-474.	0.1	6
128	Catalyst activity of aluminaâ€“galia aerogels for selective reduction of NOx. Journal of Non-Crystalline Solids, 2001, 285, 333-337.	3.1	6
129	Selective Catalytic Reduction of Nitrogen Monoxide with H₂ or CO as Reductant in Presence of SO₂. Journal of the Japan Petroleum Institute, 2006, 49, 219-230.	0.6	6
130	Promotion of surface SOx on the selective catalytic reduction of NO by hydrocarbons over Ag/Al2O3. Applied Surface Science, 2006, 252, 6390-6393.	6.1	5
131	Promoting Effect of CeO2 on the Catalytic Activity of Baâ€“Y2O3 for Direct Decomposition of NO. Bulletin of the Chemical Society of Japan, 2015, 88, 117-123.	3.2	5
132	Development of Diesel Hydrocarbon Oxidation Catalysts Aimed at Reducing Platinum Group Metals Usage. Journal of the Japan Petroleum Institute, 2015, 58, 205-217.	0.6	5
133	CoO<i>_x</i>–FeO<i>_x</i> composite oxide prepared by hydrothermal method as a highly active catalyst for low-temperature CO oxidation. Journal of the Ceramic Society of Japan, 2017, 125, 135-140.	1.1	5
134	A study of ageing effect: Migration of rhodium under air atmosphere. Catalysis Today, 2021, 376, 81-86.	4.4	5
135	Novel hydrogen chemisorption properties of amorphous ceramic compounds consisting of p-block elements: exploring Lewis acidâ€“base Alâ€“N pair sites formed in situ within polymer-derived siliconâ€“aluminumâ€“nitrogen-based systems. Journal of Materials Chemistry A, 2021, 9, 2959-2969.	10.3	5
136	Rh/SiO₂ Catalysts for Selective Reduction of NO with H₂ in the Presence of SO₂ and O₂. Journal of the Japan Petroleum Institute, 2003, 46, 264-271.	0.6	4
137	Catalytic Performance of Monolithic Ir/SiO₂ Based Catalysts for Selective Reduction of NO with CO. Journal of the Japan Petroleum Institute, 2007, 50, 94-101.	0.6	4
138	Fabrication of Integrated Copperâ€Based Nanoparticles/Amorphous Metalâ€“Organic Framework by a Facile Sprayâ€Drying Method: Highly Enhanced CO 2 Hydrogenation Activity for Methanol Synthesis. Angewandte Chemie, 2021, 133, 22457-22462.	2.0	4
139	Synthesis and Evaluation of Optical Properties of Iron Oxide-Doped Ceria-Zirconia Materials. Zairyo/Journal of the Society of Materials Science, Japan, 2014, 63, 432-436.	0.2	4
140	Effect of B Site Substitution on the Catalytic Activity of Laâ€Based Perovskite for Oxidative Coupling of Methane. Physica Status Solidi (B): Basic Research, 0, , 2100544.	1.5	4
141	Slow Synthesis Methodologyâ€Directed Immiscible Octahedral Pd_{<i>x</i>}Rh_{1âˆ’<i>x</i>} Dualâ€Atomâ€Site Catalysts for Superior Threeâ€Way Catalytic Activities over Rh. Angewandte Chemie, 2022, 134, .	2.0	4
142	Performance of Ba-doped Ir/WO₃-SiO₂ Catalyst for Selective Catalytic Reduction of NO_{<i>x</i>} with CO in Diesel Exhaust. Journal of the Japan Petroleum Institute, 2008, 51, 356-360.	0.6	3
143	Hydrothermal Synthesis of CeO₂ Nanocrystals Using Oleate-Modified Precipitation Method. Advanced Materials Research, 0, 463-464, 1501-1505.	0.3	3
144	Oxygen Release Property of Ceria/Alumina Composite Powder in Reducing Atmosphere at Low Temperatures. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2013, 60, 55-59.	0.2	3

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145	Influence of Ce/Zr ratio on CO oxidation activity of ceriaâ€“zirconia supported Cu catalyst. Japanese Journal of Applied Physics, 2016, 55, 01AE05.	1.5	3
146	Growth mechanism and CO oxidation catalytic activity of raspberry-shaped Co₃O₄ nanoparticles. Journal of the Ceramic Society of Japan, 2020, 128, 291-297.	1.1	3
147	Influence of crystal structure of Y-doped ZrO₂ as support oxide on the three-way catalytic performance of supported Rh catalyst. Journal of the Ceramic Society of Japan, 2021, 129, 168-174.	1.1	3
148	Catalytic Activities of Single Component Metal Oxides for Selective Reduction of NO with Ethene.. Journal of the Japan Petroleum Institute, 2002, 45, 288-294.	0.6	3
149	Evidence for the Formation of Hydrogen by Surface Reaction between Hydroxyl Groups and CO Molecule over Ga2O3â€“Al2O3. Chemistry Letters, 2000, 29, 974-975.	1.3	2
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