

# Ken-ichi Shimizu

## List of Publications by Year in descending order

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344  
papers

16,699  
citations

11639

70  
h-index

26591

107  
g-index

388  
all docs

388  
docs citations

388  
times ranked

13933  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced production of hydroxymethylfurfural from fructose with solid acid catalysts by simple water removal methods. <i>Catalysis Communications</i> , 2009, 10, 1849-1853.	1.6	318
2	Machine Learning for Catalysis Informatics: Recent Applications and Prospects. <i>ACS Catalysis</i> , 2020, 10, 2260-2297.	5.5	309
3	Comprehensive IR study on acid/base properties of metal oxides. <i>Applied Catalysis A: General</i> , 2012, 433-434, 135-145.	2.2	292
4	Effects of Brønsted and Lewis acidities on activity and selectivity of heteropolyacid-based catalysts for hydrolysis of cellobiose and cellulose. <i>Green Chemistry</i> , 2009, 11, 1627.	4.6	288
5	Silver-alumina catalysts for selective reduction of NO by higher hydrocarbons: structure of active sites and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2001, 30, 151-162.	10.8	287
6	Heterogeneous catalysis for the direct synthesis of chemicals by borrowing hydrogen methodology. <i>Catalysis Science and Technology</i> , 2015, 5, 1412-1427.	2.1	220
7	Oxidant-Free Dehydrogenation of Alcohols Heterogeneously Catalyzed by Cooperation of Silver Clusters and Acid-Base Sites on Alumina. <i>Chemistry - A European Journal</i> , 2009, 15, 2341-2351.	1.7	218
8	Chemoselective Hydrogenation of Nitroaromatics by Supported Gold Catalysts: Mechanistic Reasons of Size- and Support-Dependent Activity and Selectivity. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17803-17810.	1.5	202
9	Size- and support-dependent silver cluster catalysis for chemoselective hydrogenation of nitroaromatics. <i>Journal of Catalysis</i> , 2010, 270, 86-94.	3.1	200
10	Promotion effect of H <sub>2</sub> on the low temperature activity of the selective reduction of NO by light hydrocarbons over Ag/Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , 2003, 42, 179-186.	10.8	193
11	Structural investigations of functionalized mesoporous silica-supported palladium catalyst for Heck and Suzuki coupling reactions. <i>Journal of Catalysis</i> , 2004, 228, 141-151.	3.1	192
12	Direct Dehydrogenative Amide Synthesis from Alcohols and Amines Catalyzed by $\gamma$ -Alumina Supported Silver Cluster. <i>Chemistry - A European Journal</i> , 2009, 15, 9977-9980.	1.7	190
13	Catalytic performance of Ag-Al <sub>2</sub> O <sub>3</sub> catalyst for the selective catalytic reduction of NO by higher hydrocarbons. <i>Applied Catalysis B: Environmental</i> , 2000, 25, 239-247.	10.8	189
14	Heterogeneous Ni Catalyst for Direct Synthesis of Primary Amines from Alcohols and Ammonia. <i>ACS Catalysis</i> , 2013, 3, 112-117.	5.5	185
15	Heterogeneous Ni Catalysts for N-Alkylation of Amines with Alcohols. <i>ACS Catalysis</i> , 2013, 3, 998-1005.	5.5	179
16	Single-atom Pt in intermetallics as an ultrastable and selective catalyst for propane dehydrogenation. <i>Nature Communications</i> , 2020, 11, 2838.	5.8	169
17	Direct C-C Cross-Coupling of Secondary and Primary Alcohols Catalyzed by a $\gamma$ -Alumina-Supported Silver Subnanocluster. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3982-3986.	7.2	163
18	Design of Interfacial Sites between Cu and Amorphous ZrO <sub>2</sub> Dedicated to CO <sub>2</sub> -to-Methanol Hydrogenation. <i>ACS Catalysis</i> , 2018, 8, 7809-7819.	5.5	159

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19	Structure of active Ag clusters in Ag zeolites for SCR of NO by propane in the presence of hydrogen. <i>Journal of Catalysis</i> , 2004, 227, 367-374.	3.1	158
20	Hydrogenation of levulinic acid to $\hat{\beta}$ -valerolactone by Ni and MoO <sub>x</sub> co-loaded carbon catalysts. <i>Green Chemistry</i> , 2014, 16, 3899-3903.	4.6	154
21	Selective catalytic reduction of NO over supported silver catalysts—practical and mechanistic aspects. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2677-2695.	1.3	151
22	Transamidation of amides with amines under solvent-free conditions using a CeO <sub>2</sub> catalyst. <i>Green Chemistry</i> , 2012, 14, 717.	4.6	147
23	Study of active sites and mechanism for soot oxidation by silver-loaded ceria catalyst. <i>Applied Catalysis B: Environmental</i> , 2010, 96, 169-175.	10.8	146
24	Selective catalytic reduction of NO by hydrocarbons on Ga <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , 1998, 16, 319-326.	10.8	143
25	Heterogeneous Pt Catalysts for Reductive Amination of Levulinic Acid to Pyrrolidones. <i>ACS Catalysis</i> , 2014, 4, 3045-3050.	5.5	142
26	Role of Acetate and Nitrates in the Selective Catalytic Reduction of NO by Propene over Alumina Catalyst as Investigated by FTIR. <i>Journal of Physical Chemistry B</i> , 1999, 103, 5240-5245.	1.2	141
27	Toward Effective Utilization of Methane: Machine Learning Prediction of Adsorption Energies on Metal Alloys. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8315-8326.	1.5	140
28	Toward a rational control of solid acid catalysis for green synthesis and biomass conversion. <i>Energy and Environmental Science</i> , 2011, 4, 3140.	15.6	134
29	$\hat{\beta}$ -Alumina-Supported Silver Cluster for <i>N</i> -Benzoylation of Anilines with Alcohols. <i>ChemCatChem</i> , 2009, 1, 497-503.	1.8	132
30	Promotion effect of hydrogen on surface steps in SCR of NO by propane over alumina-based silver catalyst as examined by transient FT-IR. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2154.	1.3	129
31	Deconvolution Analysis of Ga K-Edge XANES for Quantification of Gallium Coordinations in Oxide Environments. <i>Journal of Physical Chemistry B</i> , 1998, 102, 10190-10195.	1.2	128
32	Size- and support-dependent Pt nanocluster catalysis for oxidant-free dehydrogenation of alcohols. <i>Journal of Catalysis</i> , 2013, 304, 63-71.	3.1	125
33	Photocatalytic Water Splitting on Ni-Intercalated Ruddlesden-Popper Tantalate H <sub>2</sub> La <sub>2</sub> /3Ta <sub>2</sub> O <sub>7</sub> . <i>Chemistry of Materials</i> , 2005, 17, 5161-5166.	3.2	123
34	Selective oxidation of liquid hydrocarbons over photoirradiated TiO <sub>2</sub> pillared clays. <i>Applied Catalysis A: General</i> , 2002, 225, 185-191.	2.2	121
35	Selective hydrogenation of levulinic acid to valeric acid and valeric biofuels by a Pt/HMFI catalyst. <i>Catalysis Science and Technology</i> , 2014, 4, 3227-3234.	2.1	115
36	Acceptorless dehydrogenative coupling reactions with alcohols over heterogeneous catalysts. <i>Green Chemistry</i> , 2018, 20, 2933-2952.	4.6	114

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37	Machine-learning prediction of the d-band center for metals and bimetals. RSC Advances, 2016, 6, 52587-52595.	1.7	113
38	Efficient and Substrate-Specific Hydration of Nitriles to Amides in Water by Using a CeO <sub>2</sub> Catalyst. Chemistry - A European Journal, 2011, 17, 11428-11431.	1.7	112
39	Hydrodeoxygenation of fatty acids and triglycerides by Pt-loaded Nb <sub>2</sub> O <sub>5</sub> catalysts. Catalysis Science and Technology, 2014, 4, 3705-3712.	2.1	109
40	Intermediates in the Selective Reduction of NO by Propene over Cu <sup>+</sup> /Al <sub>2</sub> O <sub>3</sub> Catalysts: A Transient in Situ FTIR Study. Journal of Physical Chemistry B, 2000, 104, 2885-2893.	1.2	106
41	A Cu-Pd single-atom alloy catalyst for highly efficient NO reduction. Chemical Science, 2019, 10, 8292-8298.	3.7	105
42	Photocatalytic water splitting on hydrated layered perovskite tantalate A <sub>2</sub> SrTa <sub>2</sub> O <sub>7</sub> ·nH <sub>2</sub> O (A = H, K, and) Ti ETQq 0.0 rgBT /C	1.3	104
43	Reductive Activation of O <sub>2</sub> with H <sub>2</sub> -Reduced Silver Clusters as a Key Step in the H <sub>2</sub> -Promoted Selective Catalytic Reduction of NO with C <sub>3</sub> H <sub>8</sub> over Ag/Al <sub>2</sub> O <sub>3</sub> . Journal of Physical Chemistry C, 2007, 111, 950-959.	1.5	104
44	Activity controlling factors for low-temperature oxidation of CO over supported Pd catalysts. Applied Catalysis B: Environmental, 2013, 132-133, 511-518.	10.8	104
45	Acceptor-free dehydrogenation of secondary alcohols by heterogeneous cooperative catalysis between Ni nanoparticles and acid-base sites of alumina supports. Journal of Catalysis, 2013, 300, 242-250.	3.1	104
46	Density Functional Theory Calculations of Oxygen Vacancy Formation and Subsequent Molecular Adsorption on Oxide Surfaces. Journal of Physical Chemistry C, 2018, 122, 29435-29444.	1.5	103
47	Factors Controlling Activity and Selectivity for SCR of NO by Hydrogen over Supported Platinum Catalysts. Journal of Physical Chemistry B, 2004, 108, 18327-18335.	1.2	96
48	Stepwise production of CO-rich syngas and hydrogen via solar methane reforming by using a Ni(II)-ferrite redox system. Solar Energy, 2002, 73, 363-374.	2.9	94
49	Alumina-Supported Gallium Oxide Catalysts for NO Selective Reduction: Influence of the Local Structure of Surface Gallium Oxide Species on the Catalytic Activity. Journal of Physical Chemistry B, 1999, 103, 1542-1549.	1.2	92
50	Acidic properties of sulfonic acid-functionalized FSM-16 mesoporous silica and its catalytic efficiency for acetalization of carbonyl compounds. Journal of Catalysis, 2005, 231, 131-138.	3.1	92
51	Unique catalytic features of Ag nanoclusters for selective NO <sub>x</sub> reduction and green chemical reactions. Catalysis Science and Technology, 2011, 1, 331.	2.1	92
52	Bulk tungsten-substituted vanadium oxide for low-temperature NO <sub>x</sub> removal in the presence of water. Nature Communications, 2021, 12, 557.	5.8	92
53	Ligand field effect on the chemical shift in XANES spectra of Cu(II) compounds. Physical Chemistry Chemical Physics, 2001, 3, 862-866.	1.3	88
54	Isolated Indium Hydrides in CHA Zeolites: Speciation and Catalysis for Nonoxidative Dehydrogenation of Ethane. Journal of the American Chemical Society, 2020, 142, 4820-4832.	6.6	86

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55	<i>C</i> -Methylation of Alcohols, Ketones, and Indoles with Methanol Using Heterogeneous Platinum Catalysts. <i>ACS Catalysis</i> , 2018, 8, 3091-3103.	5.5	85
56	In situ FT/IR study of selective catalytic reduction of NO over alumina-based catalysts. <i>Progress in Energy and Combustion Science</i> , 2003, 29, 71-84.	15.8	83
57	Bulk Vanadium Oxide versus Conventional V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> : NH <sub>3</sub> -SCR Catalysts Working at a Low Temperature Below 150 °C. <i>ACS Catalysis</i> , 2019, 9, 9327-9331.	5.5	82
58	Low-Temperature Hydrogenation of CO <sub>2</sub> to Methanol over Heterogeneous TiO <sub>2</sub> -Supported Re Catalysts. <i>ACS Catalysis</i> , 2019, 9, 3685-3693.	5.5	82
59	Transition metal-aluminate catalysts for NO reduction by C <sub>3</sub> H <sub>6</sub> . <i>Applied Catalysis B: Environmental</i> , 1998, 18, 163-170.	10.8	81
60	Pd-sepiolite catalyst for Suzuki coupling reaction in water: Structural and catalytic investigations. <i>Journal of Catalysis</i> , 2004, 227, 202-209.	3.1	80
61	SO <sub>3</sub> H-functionalized silica for acetalization of carbonyl compounds with methanol and tetrahydropyranlation of alcohols. <i>Tetrahedron Letters</i> , 2004, 45, 5135-5138.	0.7	80
62	Characterization and Activity Analysis of Catalytic Water Oxidation Induced by Hybridization of [(OH <sub>2</sub> )(terpy)Mn(μ <sub>4</sub> -O)Mn(terpy)(OH <sub>2</sub> ) <sub>3</sub> ]+ and Clay Compounds. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23107-23114.	1.2	80
63	Selective Exchange and Fixation of Strontium Ions with Ultrafine Na-4-mica. <i>Langmuir</i> , 2001, 17, 4881-4886.	1.6	79
64	Heterogeneous cobalt catalysts for the acceptorless dehydrogenation of alcohols. <i>Green Chemistry</i> , 2013, 15, 418-424.	4.6	78
65	Selective Synthesis of Primary Amines by Reductive Amination of Ketones with Ammonia over Supported Pt catalysts. <i>ChemCatChem</i> , 2015, 7, 921-924.	1.8	77
66	Rhenium-Loaded TiO <sub>2</sub> : A Highly Versatile and Chemoselective Catalyst for the Hydrogenation of Carboxylic Acid Derivatives and the N-Methylation of Amines Using H <sub>2</sub> and CO <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2017, 23, 14848-14859.	1.7	76
67	Ternary platinum-cobalt-indium nanoalloy on ceria as a highly efficient catalyst for the oxidative dehydrogenation of propane using CO <sub>2</sub> . <i>Nature Catalysis</i> , 2022, 5, 55-65.	16.1	76
68	Fluidized Bed Coal Gasification with CO <sub>2</sub> under Direct Irradiation with Concentrated Visible Light. <i>Energy &amp; Fuels</i> , 2002, 16, 1264-1270.	2.5	74
69	CeO <sub>2</sub> -catalyzed nitrile hydration to amide: reaction mechanism and active sites. <i>Catalysis Science and Technology</i> , 2013, 3, 1386.	2.1	73
70	Spectroscopic characterisation of Cu-Al <sub>2</sub> O <sub>3</sub> catalysts for selective catalytic reduction of NO with propene. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2435-2439.	1.3	72
71	Doped-vanadium oxides as sensing materials for high temperature operative selective ammonia gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2009, 141, 410-416.	4.0	71
72	Characterization of Lewis acidity of cation-exchanged montmorillonite K-10 clay as effective heterogeneous catalyst for acetylation of alcohol. <i>Journal of Molecular Catalysis A</i> , 2008, 284, 89-96.	4.8	70

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73	Volcano-Curves for Dehydrogenation of 2-Propanol and Hydrogenation of Nitrobenzene by SiO <sub>2</sub> -Supported Metal Nanoparticles Catalysts As Described in Terms of a d-Band Model. ACS Catalysis, 2012, 2, 1904-1909.	5.5	70
74	Sustainable Heterogeneous Platinum Catalyst for Direct Methylation of Secondary Amines by Carbon Dioxide and Hydrogen. Chemistry - A European Journal, 2014, 20, 6264-6267.	1.7	70
75	Direct synthesis of quinazolinones by acceptorless dehydrogenative coupling of o-aminobenzamide and alcohols by heterogeneous Pt catalysts. Catalysis Science and Technology, 2014, 4, 1716-1719.	2.1	70
76	Hydrogen assisted urea-SCR and NH <sub>3</sub> -SCR with silver $\alpha$ alumina as highly active and SO <sub>2</sub> -tolerant de-NO catalysis. Applied Catalysis B: Environmental, 2007, 77, 202-205.	10.8	68
77	Mechanistic causes of the hydrocarbon effect on the activity of Ag $\alpha$ Al <sub>2</sub> O <sub>3</sub> catalyst for the selective reduction of NO. Physical Chemistry Chemical Physics, 2001, 3, 880-884.	1.3	67
78	Formation and Reactions of NH <sub>4</sub> NO <sub>3</sub> during Transient and Steady-State NH <sub>3</sub> -SCR of NO <sub>x</sub> over H-AFX Zeolites: Spectroscopic and Theoretical Studies. ACS Catalysis, 2020, 10, 2334-2344.	5.5	67
79	Mechanism of NO Reduction by CH <sub>4</sub> in the Presence of O <sub>2</sub> over Pd $\alpha$ Mordenite. Journal of Catalysis, 2000, 195, 151-160.	3.1	66
80	Quantification of aluminium coordinations in alumina and silica $\alpha$ alumina by Al K-edge XANES. Physical Chemistry Chemical Physics, 2001, 3, 1925-1929.	1.3	66
81	Heterogeneous Pt and MoO <sub>3</sub> Co-Loaded TiO <sub>2</sub> Catalysts for Low-Temperature CO <sub>2</sub> Hydrogenation To Form CH <sub>3</sub> OH. ACS Catalysis, 2019, 9, 8187-8196.	5.5	66
82	In Situ Spectroscopic Studies on the Redox Cycle of NH <sub>3</sub> $\alpha$ SCR over Cu $\alpha$ CHA Zeolites. ChemCatChem, 2020, 12, 3050-3059.	1.8	64
83	Kinetic and in situ infrared studies on SCR of NO with propane by silver $\alpha$ alumina catalyst: Role of H <sub>2</sub> on O <sub>2</sub> activation and retardation of nitrate poisoning. Journal of Catalysis, 2006, 239, 402-409.	3.1	62
84	Suzuki cross-coupling reaction catalyzed by palladium-supported sepiolite. Tetrahedron Letters, 2002, 43, 5653-5655.	0.7	61
85	Oxidation of CO over Ru/Ceria prepared by self-dispersion of Ru metal powder into nano-sized particle. Catalysis Today, 2013, 201, 62-67.	2.2	61
86	N-alkylation of ammonia and amines with alcohols catalyzed by Ni-loaded CaSiO <sub>3</sub> . Catalysis Today, 2014, 232, 134-138.	2.2	61
87	Silver cluster-promoted heterogeneous copper catalyst for N-alkylation of amines with alcohols. RSC Advances, 2011, 1, 1310.	1.7	60
88	Acceptorless Dehydrogenative Synthesis of Pyrimidines from Alcohols and Amidines Catalyzed by Supported Platinum Nanoparticles. ACS Catalysis, 2018, 8, 11330-11341.	5.5	58
89	Formation and Redispersion of Silver Clusters in Ag-MFI Zeolite as Investigated by Time-Resolved QXAFS and UV $\alpha$ Vis. Journal of Physical Chemistry C, 2007, 111, 1683-1688.	1.5	57
90	Surface Oxygen Atom as a Cooperative Ligand in Pd Nanoparticle Catalysis for Selective Hydration of Nitriles to Amides in Water: Experimental and Theoretical Studies. ACS Catalysis, 2012, 2, 2467-2474.	5.5	56

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91	Acceptorless dehydrogenative synthesis of benzothiazoles and benzimidazoles from alcohols or aldehydes by heterogeneous Pt catalysts under neutral conditions. <i>Tetrahedron Letters</i> , 2015, 56, 4885-4888.	0.7	56
92	Seasonal change of persistent organic pollutant concentrations in air at Niigata area, Japan. <i>Chemosphere</i> , 2003, 52, 683-694.	4.2	55
93	Polyvalent-metal salts of heteropolyacid as catalyst for Friedel-Crafts alkylation reactions. <i>Applied Catalysis A: General</i> , 2008, 349, 1-5.	2.2	55
94	Carbon oxidation with Ag/ceria prepared by self-dispersion of Ag powder into nano-particles. <i>Catalysis Today</i> , 2011, 175, 93-99.	2.2	55
95	Surface Oxygen-Assisted Pd Nanoparticle Catalysis for Selective Oxidation of Silanes to Silanols. <i>Chemistry - A European Journal</i> , 2012, 18, 2226-2229.	1.7	54
96	Statistical Analysis and Discovery of Heterogeneous Catalysts Based on Machine Learning from Diverse Published Data. <i>ChemCatChem</i> , 2019, 11, 4537-4547.	1.8	54
97	Hydrodeoxygenation of Fatty Acids, Triglycerides, and Ketones to Liquid Alkanes by a Pt-MoO <sub>3</sub> /TiO <sub>2</sub> Catalyst. <i>ChemCatChem</i> , 2017, 9, 2822-2827.	1.8	53
98	Lewis Acid Catalysis of Nb <sub>2</sub> O <sub>5</sub> for Reactions of Carboxylic Acid Derivatives in the Presence of Basic Inhibitors. <i>ChemCatChem</i> , 2019, 11, 383-396.	1.8	53
99	Catalytically Activated Metal Foam Absorber for Light-to-Chemical Energy Conversion via Solar Reforming of Methane. <i>Energy &amp; Fuels</i> , 2003, 17, 13-17.	2.5	52
100	General and Selective C <sup>3</sup> Alkylation of Indoles with Primary Alcohols by a Reusable Pt Nanocluster Catalyst. <i>Chemistry - A European Journal</i> , 2013, 19, 14416-14419.	1.7	52
101	Polyvalent-metal salts of heteropolyacid as efficient heterogeneous catalysts for Friedel-Crafts acylation of arenes with carboxylic acids. <i>Catalysis Communications</i> , 2008, 9, 980-983.	1.6	51
102	Self-aldol condensation of unmodified aldehydes catalysed by secondary-amine immobilised in FSM-16 silica. <i>Tetrahedron Letters</i> , 2002, 43, 9073-9075.	0.7	49
103	Influence of hydrocarbon structure on selective catalytic reduction of NO by hydrocarbons over Cu-Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis B: Environmental</i> , 2002, 37, 197-204.	10.8	48
104	Impedancemetric gas sensor based on Pt and WO <sub>3</sub> co-loaded TiO <sub>2</sub> and ZrO <sub>2</sub> as total NO <sub>x</sub> sensing materials. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 707-712.	4.0	48
105	Alkylation of 2-methylquinoline with alcohols under additive-free conditions by Al <sub>2</sub> O <sub>3</sub> -supported Pt catalyst. <i>Tetrahedron Letters</i> , 2013, 54, 6490-6493.	0.7	48
106	N-Methylation of amines and nitroarenes with methanol using heterogeneous platinum catalysts. <i>Journal of Catalysis</i> , 2019, 371, 47-56.	3.1	48
107	Effects of hydrogen and oxygenated hydrocarbons on the activity and SO <sub>2</sub> -tolerance of Ag/Al <sub>2</sub> O <sub>3</sub> for selective reduction of NO. <i>Applied Catalysis B: Environmental</i> , 2007, 71, 80-84.	10.8	46
108	CeO <sub>2</sub> -catalysed one-pot selective synthesis of esters from nitriles and alcohols. <i>Green Chemistry</i> , 2012, 14, 984.	4.6	46

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109	C-3 alkylation of oxindole with alcohols by Pt/CeO <sub>2</sub> catalyst in additive-free conditions. <i>Catalysis Science and Technology</i> , 2014, 4, 1064-1069.	2.1	46
110	Promotional Effect of La in the Three-Way Catalysis of La-Loaded Al <sub>2</sub> O <sub>3</sub> -Supported Pd Catalysts (Pd/La/Al <sub>2</sub> O <sub>3</sub> ). <i>ACS Catalysis</i> , 2020, 10, 1010-1023.	5.5	46
111	Active, Selective, and Durable Catalyst for Alkane Dehydrogenation Based on a Well-Designed Trimetallic Alloy. <i>ACS Catalysis</i> , 2020, 10, 5163-5172.	5.5	46
112	Doubly Decorated Platinum-Gallium Intermetallics as Stable Catalysts for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19715-19719.	7.2	46
113	Stepwise production of CO-rich syngas and hydrogen via methane reforming by a WO <sub>3</sub> -redox catalyst. <i>Energy</i> , 2003, 28, 1055-1068.	4.5	45
114	Selective photo-oxidation of benzene over transition metal-exchanged BEA zeolite. <i>Applied Catalysis A: General</i> , 2004, 269, 75-80.	2.2	45
115	Mechanism of Low-Temperature CO Oxidation on Pt/Fe-Containing Alumina Catalysts Pretreated with Water. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1268-1277.	1.5	45
116	TiO <sub>2</sub> -Supported Re as a General and Chemoselective Heterogeneous Catalyst for Hydrogenation of Carboxylic Acids to Alcohols. <i>Chemistry - A European Journal</i> , 2017, 23, 1001-1006.	1.7	45
117	CeO <sub>2</sub> -catalyzed Transformations of Nitriles and Amides. <i>Chemistry Letters</i> , 2012, 41, 1397-1405.	0.7	43
118	Oxygen reduction reaction over silver particles with various morphologies and surface chemical states. <i>Journal of Power Sources</i> , 2014, 245, 998-1004.	4.0	43
119	Amidation of Carboxylic Acids with Amines by Nb <sub>2</sub> O <sub>5</sub> as a Reusable Lewis Acid Catalyst. <i>ChemCatChem</i> , 2015, 7, 3555-3561.	1.8	43
120	Substrate-Specific Heterogeneous Catalysis of CeO <sub>2</sub> by Entropic Effects via Multiple Interactions. <i>ACS Catalysis</i> , 2015, 5, 20-26.	5.5	43
121	Catalyst effectiveness factor of cobalt-exchanged mordenites for the selective catalytic reduction of NO with hydrocarbons. <i>Applied Catalysis B: Environmental</i> , 1998, 17, 107-113.	10.8	42
122	The average Pd oxidation state in Pd/SiO <sub>2</sub> quantified by L3-edge XANES analysis and its effects on catalytic activity for CO oxidation. <i>Catalysis Science and Technology</i> , 2012, 2, 767.	2.1	42
123	Lewis Acid-Promoted Heterogeneous Platinum Catalysts for Hydrogenation of Amides to Amines. <i>ChemistrySelect</i> , 2016, 1, 736-740.	0.7	42
124	Sintering-resistant and self-regenerative properties of Ag/SnO <sub>2</sub> catalyst for soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2011, 108-109, 39-46.	10.8	41
125	Transfer hydrogenation of ketones by ceria-supported Ni catalysts. <i>Green Chemistry</i> , 2012, 14, 2983.	4.6	41
126	Design of Pd-based pseudo-binary alloy catalysts for highly active and selective NO reduction. <i>Chemical Science</i> , 2019, 10, 4148-4162.	3.7	41



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127	Redox tunable reversible molecular sieves: orthorhombic molybdenum vanadium oxide. <i>Chemical Communications</i> , 2011, 47, 10812.	2.2	40
128	Fe <sup>3+</sup> -exchanged clay catalyzed transamidation of amides with amines under solvent-free condition. <i>Tetrahedron Letters</i> , 2014, 55, 1316-1319.	0.7	40
129	A Heterogeneous Niobium(V) Oxide Catalyst for the Direct Amidation of Esters. <i>ChemCatChem</i> , 2015, 7, 2705-2710.	1.8	40
130	Selective N-alkylation of indoles with primary alcohols using a Pt/HBEA catalyst. <i>Green Chemistry</i> , 2015, 17, 173-177.	4.6	40
131	Thermochemical methane reforming using WO <sub>3</sub> as an oxidant below 1173 K by a solar furnace simulator. <i>Solar Energy</i> , 2001, 71, 315-324.	2.9	39
132	Hydrodeoxygenation of sulfoxides to sulfides by a Pt and MoO <sub>x</sub> co-loaded TiO <sub>2</sub> catalyst. <i>Green Chemistry</i> , 2016, 18, 2554-2560.	4.6	39
133	Acceptorless dehydrogenation of N-heterocycles by supported Pt catalysts. <i>Catalysis Today</i> , 2017, 281, 507-511.	2.2	38
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