Ken-ichi Shimizu

List of Publications by Year
in descending order

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	Ga speciation and ethane dehydrogenation catalysis of Ga-CHA and MOR: Comparative investigation with Ga-MFI. Catalysis Today, 2023, 411-412, 113824.	2.2	5
2	Experimental studies on intracrystalline diffusion of NO and NH3 in Cu-CHA. Catalysis Today, 2023, 411-412, 113823.	2.2	1
3	<i>N,N</i>â€Dimethylformamideâ€protected Fe₂O₃ Combined with Pt Nanoparticles: Characterization and Catalysis in Alkene Hydrosilylation. ChemCatChem, 2022, 14, .	1.8	2
4	Propane Dehydrogenation Catalysis of Titanium Hydrides: Positive Effect of Hydrogen Co-feeding. Chemistry Letters, 2022, 51, 88-90.	0.7	2
5	Ternary platinumâ€“cobaltâ€“indium nanoalloy on ceria as a highly efficient catalyst for the oxidative dehydrogenation of propane using CO2. Nature Catalysis, 2022, 5, 55-65.	16.1	76
6	High-loading Ga-exchanged MFI zeolites as selective and coke-resistant catalysts for nonoxidative ethane dehydrogenation. Catalysis Science and Technology, 2022, 12, 986-995.	2.1	9
7	Machine Learning Analysis of Literature Data on the Water Gas Shift Reaction toward Extrapolative Prediction of Novel Catalysts. Chemistry Letters, 2022, 51, 269-273.	0.7	7
8	Role of Ba in an Al₂O₃â€Supported Pdâ€based Catalyst under Practical Threeâ€Way Catalysis Conditions. ChemCatChem, 2022, 14, .	1.8	4
9	Catalytic Methylation of Benzene over Pt/MoOx/TiO2 and Zeolite Catalyst Using CO2 and H2. Chemistry Letters, 2022, 51, 149-152.	0.7	1
10	Continuous CO₂ Capture and Selective Hydrogenation to CO over Na-Promoted Pt Nanoparticles on Al₂O₃. ACS Catalysis, 2022, 12, 2639-2650.	5.5	22
11	Understanding and controlling the formation of surface anion vacancies for catalytic applications. Catalysis Science and Technology, 2022, 12, 2398-2410.	2.1	2
12	Experimental and Theoretical Investigation of Metalâ€“Support Interactions in Metal-Oxide-Supported Rhenium Materials. Journal of Physical Chemistry C, 2022, 126, 4472-4482.	1.5	5
13	Mechanistic study on three-way catalysis over Pd/La/Al2O3 with high La loading. Catalysis Today, 2022, , .	2.2	1
14	Enhancement of the hydrodesulfurization and Câˆ'S bond cleavage activities of rhodium phosphide catalysts by platinum addition. Journal of Catalysis, 2022, 408, 294-302.	3.1	8
15	Redox-Driven Reversible Structural Evolution of Isolated Silver Atoms Anchored to Specific Sites on Î³-Al₂O₃. ACS Catalysis, 2022, 12, 544-559.	5.5	16
16	Effect of oxygen storage materials on the performance of Pt-based three-way catalysts. Catalysis Science and Technology, 2022, 12, 3534-3548.	2.1	6
17	Oxidation Catalysis over Solid-State Keggin-Type Phosphomolybdic Acid with Oxygen Defects. Journal of the American Chemical Society, 2022, 144, 7693-7708.	6.6	30
18	Nickelâ€Based Highâ€Entropy Intermetallic as a Highly Active and Selective Catalyst for Acetylene Semihydrogenation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	34

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19	Super Mg²⁺ Conductivity around 10^{â€“3} S cm^{â€“1} Observed in a Porous Metalâ€“Organic Framework. Journal of the American Chemical Society, 2022, 144, 8669-8675.	6.6	17
20	Defective NiO as a Stabilizer for Au Single-Atom Catalysts. ACS Catalysis, 2022, 12, 6149-6158.	5.5	30
21	Catalytic Decomposition of N₂O in the Presence of O₂ through Redox of Rh Oxide in a RhO_{<i>x</i>}/ZrO₂ Catalyst. ACS Catalysis, 2022, 12, 6325-6333.	5.5	14
22	Trends in Surface Oxygen Formation Energy in Perovskite Oxides. ACS Omega, 2022, 7, 18427-18433.	1.6	2
23	Layered silicate stabilises diiron to mimic UV-shielding TiO2 nanoparticle. Materials Today Nano, 2022, 19, 100227.	2.3	5
24	Application to Electroluminescence Devices with Dimethylformamide-Stabilized Niobium Oxide Nanoparticles. ACS Applied Nano Materials, 2022, 5, 7658-7663.	2.4	2
25	<i>N</i>,<i>N</i>-Dimethylformamide-stabilized ruthenium nanoparticle catalyst for Î2-alkylated dimer alcohol formation <i>via</i> Guerbet reaction of primary alcohols. RSC Advances, 2022, 12, 16599-16603.	1.7	2
26	<i>In Situ</i> Spectroscopic Studies of the Redox Catalytic Cycle in NH₃â€“SCR over Chromium-Exchanged Zeolites. Journal of Physical Chemistry C, 2022, 126, 11082-11090.	1.5	7
27	Mechanism of Standard NH₃â€“SCR over Cu-CHA via NO⁺ and HONO Intermediates. Journal of Physical Chemistry C, 2022, 126, 11594-11601.	1.5	10
28	In situ/operando spectroscopic studies on NH3â€“SCR reactions catalyzed by a phosphorus-modified Cu-CHA zeolite. Catalysis Today, 2021, 376, 73-80.	2.2	12
29	Silicaâ€Decoration Boosts Ni Catalysis for (De)hydrogenation: Stepâ€Abundant Nanostructures Stabilized by Silica. ChemCatChem, 2021, 13, 1306-1310.	1.8	7
30	Kinetic and spectroscopic insights into the behaviour of Cu active site for NH3-SCR over zeolites with several topologies. Catalysis Science and Technology, 2021, 11, 2718-2733.	2.1	10
31	High dimensionally structured W-V oxides as highly effective catalysts for selective oxidation of toluene. Catalysis Today, 2021, 363, 60-66.	2.2	6
32	Hydrolysis of amides to carboxylic acids catalyzed by Nb₂O₅. Catalysis Science and Technology, 2021, 11, 1949-1960.	2.1	18
33	Selective catalytic reduction of NO with NH3 over Cu-exchanged CHA, GME, and AFX zeolites: a density functional theory study. Catalysis Science and Technology, 2021, 11, 1780-1790.	2.1	12
34	Reverse Water-Gas Shift Reaction via Redox of Re Nanoclusters Supported on TiO2. Chemistry Letters, 2021, 50, 158-161.	0.7	11
35	Surface activation by electron scavenger metal nanorod adsorption on TiH₂, TiC, TiN, and Ti₂O₃. Physical Chemistry Chemical Physics, 2021, 23, 16577-16593.	1.3	9
36	Bulk tungsten-substituted vanadium oxide for low-temperature NOx removal in the presence of water. Nature Communications, 2021, 12, 557.	5.8	92

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37	Silica-decorated Niâ€“Zn alloy as a highly active and selective catalyst for acetylene semihydrogenation. Catalysis Science and Technology, 2021, 11, 4016-4020.	2.1	10
38	AFX Zeolite for Use as a Support of NH3-SCR Catalyst Mining through AICE Joint Research Project of Industriesâ€“Academiaâ€“Academia. Catalysts, 2021, 11, 163.	1.6	7
39	Reverse water-gas shift reaction over Pt/MoO_x/TiO₂: reverse Marsâ€“van Krevelen mechanism <i>via</i> redox of supported MoO_x. Catalysis Science and Technology, 2021, 11, 4172-4180.	2.1	20
40	Local structure and NO adsorption/desorption property of Pd²⁺ cations at different paired Al sites in CHA zeolite. Physical Chemistry Chemical Physics, 2021, 23, 22273-22282.	1.3	15
41	Factors determining surface oxygen vacancy formation energy in ternary spinel structure oxides with zinc. Physical Chemistry Chemical Physics, 2021, 23, 23768-23777.	1.3	12
42	Alkyl decorated metalâ€“organic frameworks for selective trapping of ethane from ethylene above ambient pressures. Dalton Transactions, 2021, 50, 10423-10435.	1.6	15
43	Transformation of Bulk Pd to Pd Cations in Small-Pore CHA Zeolites Facilitated by NO. Jacs Au, 2021, 1, 201-211.	3.6	34
44	Effect of Oxygen Vacancies on Adsorption of Small Molecules on Anatase and Rutile TiO₂ Surfaces: A Frontier Orbital Approach. Journal of Physical Chemistry C, 2021, 125, 3827-3844.	1.5	18
45	Catalytic Methylation of <i>m</i>-Xylene, Toluene, and Benzene Using CO₂ and H₂ over TiO₂-Supported Re and Zeolite Catalysts: Machine-Learning-Assisted Catalyst Optimization. ACS Catalysis, 2021, 11, 5829-5838.	5.5	25
46	Flow reactor approach for the facile and continuous synthesis of efficient Pd@Pt core-shell nanoparticles for acceptorless dehydrogenative synthesis of pyrimidines from alcohols and amidines. Applied Catalysis A: General, 2021, 619, 118158.	2.2	9
47	In Situ/Operando IR and Theoretical Studies on the Mechanism of NH₃â€“SCR of NO/NO₂ over Hâ€“CHA Zeolites. Journal of Physical Chemistry C, 2021, 125, 13889-13899.	1.5	23
48	Analysis of Updated Literature Data up to 2019 on the Oxidative Coupling of Methane Using an Extrapolative Machineâ€Learning Method to Identify Novel Catalysts. ChemCatChem, 2021, 13, 3636-3655.	1.8	33
49	Doubly Decorated Platinumâ€“Gallium Intermetallics as Stable Catalysts for Propane Dehydrogenation. Angewandte Chemie - International Edition, 2021, 60, 19715-19719.	7.2	46
50	Roles of the basic metals La, Ba, and Sr as additives in Al2O3-supported Pd-based three-way catalysts. Journal of Catalysis, 2021, 400, 387-396.	3.1	25
51	Analogous Mechanistic Features of NH₃-SCR over Vanadium Oxide and Copper Zeolite Catalysts. ACS Catalysis, 2021, 11, 11180-11192.	5.5	33
52	Electroassisted Propane Dehydrogenation at Low Temperatures: Far beyond the Equilibrium Limitation. Jacs Au, 2021, 1, 1688-1693.	3.6	9
53	Mechanism of NH₃â€“Selective Catalytic Reduction (SCR) of NO/NO₂ (Fast SCR) over Cu-CHA Zeolites Studied by <i>In Situ/Operando</i> Infrared Spectroscopy and Density Functional Theory. Journal of Physical Chemistry C, 2021, 125, 21975-21987.	1.5	21
54	Lean NO<i>x</i> Reduction by In-Situ-Formed NH₃ under Periodic Lean/Rich Conditions over Rhodium-Loaded Al-Rich Beta Zeolites. ACS Catalysis, 2021, 11, 12293-12300.	5.5	8

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55	Lean NO_{<i>x</i>} Capture and Reduction by NH₃ <i>via</i> NO⁺ Intermediates over H-CHA at Room Temperature. Journal of Physical Chemistry C, 2021, 125, 1913-1922.	1.5	15
56	Selective catalytic reduction of NO over Cu-AFX zeolites: mechanistic insights from <i>in situ</i>/<i>operando</i> spectroscopic and DFT studies. Catalysis Science and Technology, 2021, 11, 4459-4470.	2.1	6
57	Synthesis of Zeolitic Ti, Zr-Substituted Vanadotungstates and Investigation of Their Catalytic Activities for Low Temperature NH₃-SCR. ACS Catalysis, 2021, 11, 14016-14025.	5.5	7
58	High-silica HÎ² zeolite catalyzed methanolysis of triglycerides to form fatty acid methyl esters (FAMEs). Fuel Processing Technology, 2020, 197, 106204.	3.7	17
59	Kinetic modeling of steady-state NH3-SCR over a monolithic Cu-CHA catalyst. Catalysis Today, 2020, 352, 237-242.	2.2	13
60	Formation and Reactions of NH₄NO₃ during Transient and Steady-State NH₃-SCR of NO_{<i>x</i>} over H-AFX Zeolites: Spectroscopic and Theoretical Studies. ACS Catalysis, 2020, 10, 2334-2344.	5.5	67
61	Machine Learning for Catalysis Informatics: Recent Applications and Prospects. ACS Catalysis, 2020, 10, 2260-2297.	5.5	309
62	Promotional Effect of La in the Three-Way Catalysis of La-Loaded Al₂O₃-Supported Pd Catalysts (Pd/La/Al₂O₃). ACS Catalysis, 2020, 10, 1010-1023.	5.5	46
63	A CHA zeolite supported Ga-oxo cluster for partial oxidation of CH4 at room temperature. Catalysis Today, 2020, 352, 118-126.	2.2	13
64	Thermally Induced Transformation of Sb-Containing Trigonal Mo₃VO_{<i>x</i>} to Orthorhombic Mo₃VO_{<i>x</i>} and Its Effect on the Catalytic Ammoxidation of Propane. Chemistry of Materials, 2020, 32, 1506-1516.	3.2	8
65	Coordinated Water as New Binding Sites for the Separation of Light Hydrocarbons in Metalâ€“Organic Frameworks with Open Metal Sites. ACS Applied Materials & Interfaces, 2020, 12, 9448-9456.	4.0	11
66	In-Exchanged CHA Zeolites for Selective Dehydrogenation of Ethane: Characterization and Effect of Zeolite Framework Type. Catalysts, 2020, 10, 807.	1.6	14
67	PdIn-Based Pseudo-Binary Alloy as a Catalyst for NO<i>_{<i>x</i>}</i> Removal under Lean Conditions. ACS Catalysis, 2020, 10, 11380-11384.	5.5	14
68	Changes in Surface Oxygen Vacancy Formation Energy at Metal/Oxide Perimeter Sites: A Systematic Study on Metal Nanoparticles Deposited on an In₂O₃(111) Support. Journal of Physical Chemistry C, 2020, 124, 27621-27630.	1.5	22
69	Single-atom Pt in intermetallics as an ultrastable and selective catalyst for propane dehydrogenation. Nature Communications, 2020, 11, 2838.	5.8	169
70	Active, Selective, and Durable Catalyst for Alkane Dehydrogenation Based on a Well-Designed Trimetallic Alloy. ACS Catalysis, 2020, 10, 5163-5172.	5.5	46
71	Frontier Molecular Orbital Based Analysis of Solidâ€“Adsorbate Interactions over Group 13 Metal Oxide Surfaces. Journal of Physical Chemistry C, 2020, 124, 15355-15365.	1.5	22
72	Catalyst design concept based on a variety of alloy materials: a personal account and relevant studies. Journal of Materials Chemistry A, 2020, 8, 15620-15645.	5.2	30

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73	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
74	<i>In Situ</i> Spectroscopic Studies on the Redox Cycle of NH₃âˆ’SCR over Cuâˆ’CHA Zeolites. ChemCatChem, 2020, 12, 3050-3059.	1.8	64
75	Selective C3-alkenylation of oxindole with aldehydes using heterogeneous CeO2 catalyst. Chinese Journal of Catalysis, 2020, 41, 970-976.	6.9	9
76	Mechanistic insights into the oxidation of copper(<scp>i</scp>) species during NH₃-SCR over Cu-CHA zeolites: a DFT study. Catalysis Science and Technology, 2020, 10, 3586-3593.	2.1	25
77	Surface Oxygen Vacancy Formation Energy Calculations in 34 Orientations of Î²-Ga₂O₃ and Î¸-Al₂O₃. Journal of Physical Chemistry C, 2020, 124, 10509-10522.	1.5	19
78	Catalytic Methylation of Aromatic Hydrocarbons using CO₂/H₂ over Re/TiO₂ and Hâ€MOR Catalysts. ChemCatChem, 2020, 12, 2215-2220.	1.8	24
79	Machine Learning Predictions of Adsorption Energies of CH4-Related Species. , 2020, , 135-149.		0
80	NH3-SCR by monolithic Cu-ZSM-5 and Cu-AFX catalysts: Kinetic modeling and engine bench tests. Catalysis Today, 2019, 332, 59-63.	2.2	28
81	Micropore diffusivities of NO and NH3 in Cu-ZSM-5 and their effect on NH3-SCR. Catalysis Today, 2019, 332, 64-68.	2.2	22
82	Esterification of Tertiary Amides by Alcohols Through Câˆ’N Bond Cleavage over CeO₂. ChemCatChem, 2019, 11, 449-456.	1.8	21
83	Linear Correlations between Adsorption Energies and HOMO Levels for the Adsorption of Small Molecules on TiO₂ Surfaces. Journal of Physical Chemistry C, 2019, 123, 20988-20997.	1.5	23
84	A Cuâ€“Pd single-atom alloy catalyst for highly efficient NO reduction. Chemical Science, 2019, 10, 8292-8298.	3.7	105
85	Extraordinarily large kinetic isotope effect on alkene hydrogenation over Rh-based intermetallic compounds. Science and Technology of Advanced Materials, 2019, 20, 805-812.	2.8	6
86	Statistical Analysis and Discovery of Heterogeneous Catalysts Based on Machine Learning from Diverse Published Data. ChemCatChem, 2019, 11, 4537-4547.	1.8	54
87	Heterogeneous Pt and MoO_{<i>x</i>} Co-Loaded TiO₂ Catalysts for Low-Temperature CO₂ Hydrogenation To Form CH₃OH. ACS Catalysis, 2019, 9, 8187-8196.	5.5	66
88	Direct Phenolysis Reactions of Unactivated Amides into Phenolic Esters Promoted by a Heterogeneous CeO 2 Catalyst. Chemistry - A European Journal, 2019, 25, 10515-10515.	1.7	0
89	Statistical Analysis and Discovery of Heterogeneous Catalysts Based on Machine Learning from Diverse Published Data. ChemCatChem, 2019, 11, 4445-4445.	1.8	6
90	Acetalization of glycerol with ketones and aldehydes catalyzed by high silica HÎ² zeolite. Molecular Catalysis, 2019, 479, 110608.	1.0	20

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91	Bulk Vanadium Oxide versus Conventional V₂O₅/TiO₂: NH₃â€“SCR Catalysts Working at a Low Temperature Below 150 Â°C. ACS Catalysis, 2019, 9, 9327-9331.	5.5	82
92	Mechanistic study of the selective hydrogenation of carboxylic acid derivatives over supported rhenium catalysts. Catalysis Science and Technology, 2019, 9, 5413-5424.	2.1	25
93	Direct Phenolysis Reactions of Unactivated Amides into Phenolic Esters Promoted by a Heterogeneous CeO₂ Catalyst. Chemistry - A European Journal, 2019, 25, 10594-10605.	1.7	17
94	Experimental and theoretical study of multinuclear indiumâ€“oxo clusters in CHA zeolite for CH₄ activation at room temperature. Physical Chemistry Chemical Physics, 2019, 21, 13415-13427.	1.3	18
95	Design of Pd-based pseudo-binary alloy catalysts for highly active and selective NO reduction. Chemical Science, 2019, 10, 4148-4162.	3.7	41
96	Selective Transformations of Triglycerides into Fatty Amines, Amides, and Nitriles by using Heterogeneous Catalysis. ChemSusChem, 2019, 12, 3115-3125.	3.6	25
97	Heterogeneous Additive-Free Hydroboration of Alkenes Using Cuâ€“Ni/Al₂O₃: Concerted Catalysis Assisted by Acidâ€“Base Properties and Alloying Effects. ACS Catalysis, 2019, 9, 5096-5103.	5.5	22
98	Low-Temperature Hydrogenation of CO₂ to Methanol over Heterogeneous TiO₂-Supported Re Catalysts. ACS Catalysis, 2019, 9, 3685-3693.	5.5	82
99	N-Methylation of amines and nitroarenes with methanol using heterogeneous platinum catalysts. Journal of Catalysis, 2019, 371, 47-56.	3.1	48
100	Catalytic Activity of Rhodium Phosphide for Selective Hydrodeoxygenation of Phenol. Chemistry Letters, 2019, 48, 471-474.	0.7	6
101	Highly active and noble-metal-alternative hydrogenation catalysts prepared by dealloying Niâ€“Si intermetallic compounds. Chemical Communications, 2019, 55, 13999-14002.	2.2	14
102	Combined Automated Reaction Pathway Searches and Sparse Modeling Analysis for Catalytic Properties of Lowest Energy Twins of Cu₁₃. Journal of Physical Chemistry A, 2019, 123, 210-217.	1.1	18
103	Esterification of Tertiary Amides by Alcohols Through Câˆ'N Bond Cleavage over CeO 2. ChemCatChem, 2019, 11, 15-15.	1.8	0
104	Lewis Acid Catalysis of Nb₂O₅ for Reactions of Carboxylic Acid Derivatives in the Presence of Basic Inhibitors. ChemCatChem, 2019, 11, 383-396.	1.8	53
105	<i>C</i>-Methylation of Alcohols, Ketones, and Indoles with Methanol Using Heterogeneous Platinum Catalysts. ACS Catalysis, 2018, 8, 3091-3103.	5.5	85
106	Solution Synthesis of <i>N</i>,<i>N</i>â€Dimethylformamideâ€Stabilized Ironâ€Oxide Nanoparticles as an Efficient and Recyclable Catalyst for Alkene Hydrosilylation. ChemCatChem, 2018, 10, 2378-2382.	1.8	37
107	Toward Effective Utilization of Methane: Machine Learning Prediction of Adsorption Energies on Metal Alloys. Journal of Physical Chemistry C, 2018, 122, 8315-8326.	1.5	140
108	Direct Synthesis of Lactams from Keto Acids, Nitriles, and H₂ by Heterogeneous Pt Catalysts. ChemCatChem, 2018, 10, 789-795.	1.8	28

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109	Combined theoretical and experimental study on alcoholysis of amides on CeO2 surface: A catalytic interplay between Lewis acid and base sites. Catalysis Today, 2018, 303, 256-262.	2.2	13
110	Catalytic NOâ€“CO Reactions over La-Al₂O₃ Supported Pd: Promotion Effect of La. Chemistry Letters, 2018, 47, 1036-1039.	0.7	17
111	The Catalytic Reduction of Carboxylic Acid Derivatives and CO₂ by Metal Nanoparticles on Lewisâ€Acidic Supports. Chemical Record, 2018, 18, 1374-1393.	2.9	18
112	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
113	Origin of Nb2 O5 Lewis Acid Catalysis for Activation of Carboxylic Acids in the Presence of a Hard Base. ChemPhysChem, 2018, 19, 2809-2809.	1.0	0
114	Acceptorless Dehydrogenative Synthesis of Pyrimidines from Alcohols and Amidines Catalyzed by Supported Platinum Nanoparticles. ACS Catalysis, 2018, 8, 11330-11341.	5.5	58
115	High-silica HÎ² zeolites for catalytic hydration of hydrophobic epoxides and alkynes in water. Journal of Catalysis, 2018, 368, 145-154.	3.1	26
116	Acceptorless dehydrogenative coupling reactions with alcohols over heterogeneous catalysts. Green Chemistry, 2018, 20, 2933-2952.	4.6	114
117	Design of Interfacial Sites between Cu and Amorphous ZrO₂ Dedicated to CO₂-to-Methanol Hydrogenation. ACS Catalysis, 2018, 8, 7809-7819.	5.5	159
118	Origin of Nb₂O₅ Lewis Acid Catalysis for Activation of Carboxylic Acids in the Presence of a Hard Base. ChemPhysChem, 2018, 19, 2848-2857.	1.0	28
119	Machine Learning Predictions of Factors Affecting the Activity of Heterogeneous Metal Catalysts. , 2018, , 45-64.		15
120	Heterogeneous Platinum Catalysts for Direct Synthesis of Trimethylamine by <i>N</i>-Methylation of Ammonia and Its Surrogates with CO₂/H₂. Chemistry Letters, 2017, 46, 68-70.	0.7	19
121	Interface Effects in Hydrogen Elimination Reaction from Isopropanol by Ni₁₃ Cluster on Î¸-Al₂O₃(010) Surface. Journal of Physical Chemistry C, 2017, 121, 3488-3495.	1.5	13
122	Particle-impact analysis of the degree of cluster formation of rutile nanoparticles in aqueous solution. Physical Chemistry Chemical Physics, 2017, 19, 3911-3921.	1.3	13
123	Hydrodeoxygenation of Fatty Acids, Triglycerides, and Ketones to Liquid Alkanes by a Ptâ€“MoO_{<i>x</i>}/TiO₂ Catalyst. ChemCatChem, 2017, 9, 2822-2827.	1.8	53
124	Oxidantâ€free Dehydrogenation of Glycerol to Lactic Acid by Heterogeneous Platinum Catalysts. ChemCatChem, 2017, 9, 2816-2821.	1.8	26
125	Promotional Effect of Water on Direct Dimethyl Ether Synthesis from Carbon Monoxide and Hydrogen Catalyzed by Cuâ€“Zn/Al₂O₃. ACS Sustainable Chemistry and Engineering, 2017, 5, 3675-3680.	3.2	17
126	Heterogeneous catalysts for the cyclization of dicarboxylic acids to cyclic anhydrides as monomers for bioplastic production. Green Chemistry, 2017, 19, 3238-3242.	4.6	22

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127	TiO2 -Supported Re as a General and Chemoselective Heterogeneous Catalyst for Hydrogenation of Carboxylic Acids to Alcohols. Chemistry - A European Journal, 2017, 23, 980-980.	1.7	3
128	Rheniumâ€Loaded TiO₂: A Highly Versatile and Chemoselective Catalyst for the Hydrogenation of Carboxylic Acid Derivatives and the Nâ€Methylation of Amines Using H₂ and CO₂. Chemistry - A European Journal, 2017, 23, 14848-14859.	1.7	76
129	TiO₂â€Supported Re as a General and Chemoselective Heterogeneous Catalyst for Hydrogenation of Carboxylic Acids to Alcohols. Chemistry - A European Journal, 2017, 23, 1001-1006.	1.7	45
130	Acceptorless dehydrogenation of N -heterocycles by supported Pt catalysts. Catalysis Today, 2017, 281, 507-511.	2.2	38
131	Direct Olefination of Alcohols with Sulfones by Using Heterogeneous Platinum Catalysts. Chemistry - A European Journal, 2016, 22, 6111-6119.	1.7	30
132	Machine-learning prediction of the d-band center for metals and bimetals. RSC Advances, 2016, 6, 52587-52595.	1.7	113
133	Supported rhenium nanoparticle catalysts for acceptorless dehydrogenation of alcohols: structureâ€"activity relationship and mechanistic studies. Catalysis Science and Technology, 2016, 6, 5864-5870.	2.1	24
134	Lewis Acid-Promoted Heterogeneous Platinum Catalysts for Hydrogenation of Amides to Amines. ChemistrySelect, 2016, 1, 736-740.	0.7	42
135	Atomic-Resolution HAADF-STEM Study of Ag/Al2O3 Catalysts for Borrowing-Hydrogen and Acceptorless Dehydrogenative Coupling Reactions of Alcohols. Topics in Catalysis, 2016, 59, 1740-1747.	1.3	8
136	Catalytic hydrolysis of hydrophobic esters on/in water by high-silica large pore zeolites. Journal of Catalysis, 2016, 344, 741-748.	3.1	18
137	Hydrosilane-Assisted Formation of Metal Nanoparticles on Graphene Oxide. Bulletin of the Chemical Society of Japan, 2016, 89, 67-73.	2.0	8
138	Agglomeration equilibria of hematite nanoparticles. Colloids and Interface Science Communications, 2016, 13, 19-22.	2.0	20
139	NH3-efficient ammoxidation of toluene by hydrothermally synthesized layered tungsten-vanadium complex metal oxides. Journal of Catalysis, 2016, 344, 346-353.	3.1	24
140	Direct Synthesis of Cyclic Imides from Carboxylic Anhydrides and Amines by Nb₂O₅ as a Waterâ€Tolerant Lewis Acid Catalyst. ChemCatChem, 2016, 8, 891-894.	1.8	23
141	Synthesis of 2,5-disubstituted pyrroles via dehydrogenative condensation of secondary alcohols and 1,2-amino alcohols by supported platinum catalysts. Organic Chemistry Frontiers, 2016, 3, 846-851.	2.3	35
142	Hydrodeoxygenation of sulfoxides to sulfides by a Pt and MoO_x co-loaded TiO₂ catalyst. Green Chemistry, 2016, 18, 2554-2560.	4.6	39
143	Hydrothermal synthesis of microporous Wâ€"Vâ€"O as an efficient catalyst for ammoxidation of 3-picoline. Applied Catalysis A: General, 2016, 509, 118-122.	2.2	18
144	Low temperature combustion over supported Pd catalysts â€" Strategy for catalyst design. Catalysis Today, 2015, 258, 83-89.	2.2	24

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145	Unprecedented Reductive Esterification of Carboxylic Acids under Hydrogen by Reusable Heterogeneous Platinum Catalysts. Advanced Synthesis and Catalysis, 2015, 357, 1499-1506.	2.1	14
146	Amidation of Carboxylic Acids with Amines by Nb₂O₅ as a Reusable Lewis Acid Catalyst. ChemCatChem, 2015, 7, 3555-3561.	1.8	43
147	A Heterogeneous Niobium(V) Oxide Catalyst for the Direct Amidation of Esters. ChemCatChem, 2015, 7, 2705-2710.	1.8	40
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