

Xiaodong Wang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

138 papers	5,867 citations	37 h-index	72 g-index
147 ext. papers	7,203 ext. citations	8.5 avg, IF	5.79 L-index

#	Paper	IF	Citations
138	Direct catalytic conversion of cellulose into ethylene glycol using nickel-promoted tungsten carbide catalysts. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8510-3	16.4	593
137	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. <i>ACS Catalysis</i> , 2015 , 5, 3717-3725	13.1	400
136	Non defect-stabilized thermally stable single-atom catalyst. <i>Nature Communications</i> , 2019 , 10, 234	17.4	274
135	Hydroformylation of Olefins by a Rhodium Single-Atom Catalyst with Activity Comparable to RhCl(PPh) ₃ . <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 16054-16058	16.4	253
134	Performance of Cu-Alloyed Pd Single-Atom Catalyst for Semihydrogenation of Acetylene under Simulated Front-End Conditions. <i>ACS Catalysis</i> , 2017 , 7, 1491-1500	13.1	245
133	Atomically dispersed nickel as coke-resistant active sites for methane dry reforming. <i>Nature Communications</i> , 2019 , 10, 5181	17.4	184
132	Synthesis of ethylene glycol and terephthalic acid from biomass for producing PET. <i>Green Chemistry</i> , 2016 , 18, 342-359	10	181
131	Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts. <i>Angewandte Chemie</i> , 2008 , 120, 8638-8641	3.6	177
130	Ordered Crystalline Alumina Molecular Sieves Synthesized via a Nanocasting Route. <i>Chemistry of Materials</i> , 2006 , 18, 5153-5155	9.6	145
129	Cerium-Oxide-Modified Nickel as a Non-Noble Metal Catalyst for Selective Decomposition of Hydrous Hydrazine to Hydrogen. <i>ACS Catalysis</i> , 2015 , 5, 1623-1628	13.1	109
128	Catalytically Active Rh Sub-Nanoclusters on TiO ₂ for CO Oxidation at Cryogenic Temperatures. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2820-4	16.4	103
127	ZnAl-Hydrotalcite-Supported Au Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2709-2713	16.4	97
126	Structural and catalytic properties of supported Ni ₂ P alloy catalysts for H ₂ generation via hydrous hydrazine decomposition. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 779-788	21.8	90
125	Synthesis of diesel and jet fuel range alkanes with furfural and ketones from lignocellulose under solvent free conditions. <i>Green Chemistry</i> , 2014 , 16, 4879-4884	10	89
124	Synthesis of 1,6-hexanediol from HMF over double-layered catalysts of Pd/SiO ₂ + IrReO _x /SiO ₂ in a fixed-bed reactor. <i>Green Chemistry</i> , 2016 , 18, 2175-2184	10	88
123	Identifying Size Effects of Pt as Single Atoms and Nanoparticles Supported on FeO _x for the Water-Gas Shift Reaction. <i>ACS Catalysis</i> , 2018 , 8, 859-868	13.1	86
122	Surfactant effects on the microstructures of Fe ₃ O ₄ nanoparticles synthesized by microemulsion method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 436, 675-683	5.1	74

121	Synthesis of Diesel and Jet Fuel Range Alkanes with Furfural and Angelica Lactone. <i>ACS Catalysis</i> , 2017 , 7, 5880-5886	13.1	68
120	Synthesis of renewable diesel range alkanes by hydrodeoxygenation of furans over Ni/H ₂ under mild conditions. <i>Green Chemistry</i> , 2014 , 16, 594-599	10	67
119	Versatile Nickel-Lanthanum(III) Catalyst for Direct Conversion of Cellulose to Glycols. <i>ACS Catalysis</i> , 2015 , 5, 874-883	13.1	63
118	Synergy of the catalytic activation on Ni and the CeO ₂ -TiO ₂ /Ce ₂ Ti ₂ O ₇ stoichiometric redox cycle for dramatically enhanced solar fuel production. <i>Energy and Environmental Science</i> , 2019 , 12, 767-779	35.4	57
117	Enhanced performance of Rh ₁ /TiO ₂ catalyst without methanation in water-gas shift reaction. <i>AIChE Journal</i> , 2017 , 63, 2081-2088	3.6	56
116	Selectivity-Switchable Conversion of Cellulose to Glycols over Ni-B _n Catalysts. <i>ACS Catalysis</i> , 2016 , 6, 191-201	13.1	54
115	Coordinatively Unsaturated Al ³⁺ Sites Anchored Subnanometric Ruthenium Catalyst for Hydrogenation of Aromatics. <i>ACS Catalysis</i> , 2017 , 7, 5987-5991	13.1	54
114	Hydroformylation of Olefins by a Rhodium Single-Atom Catalyst with Activity Comparable to RhCl(PPh ₃) ₃ . <i>Angewandte Chemie</i> , 2016 , 128, 16288-16292	3.6	52
113	Synthesis of high density aviation fuel with cyclopentanol derived from lignocellulose. <i>Scientific Reports</i> , 2015 , 5, 9565	4.9	52
112	Dual Metal Active Sites in an Ir /FeO Single-Atom Catalyst: A Redox Mechanism for the Water-Gas Shift Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12868-12875	16.4	49
111	Synthesis of Jet-Fuel Range Cycloalkanes from the Mixtures of Cyclopentanone and Butanal. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 11825-11837	3.9	48
110	FeO _x supported single-atom Pd bifunctional catalyst for water gas shift reaction. <i>AIChE Journal</i> , 2017 , 63, 4022-4031	3.6	47
109	Making JP-10 Superfuel Affordable with a Lignocellulosic Platform Compound. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12154-12158	16.4	45
108	Synthesis and Catalytic Performance of Highly Ordered Ru-Containing Mesoporous Carbons for Hydrogenation of Cinnamaldehyde. <i>Catalysis Letters</i> , 2008 , 125, 289-295	2.8	44
107	Effect of large cations (La ³⁺ and Ba ²⁺) on the catalytic performance of Mn-substituted hexaaluminates for N ₂ O decomposition. <i>Applied Catalysis B: Environmental</i> , 2009 , 92, 437-444	21.8	42
106	Catalytic Decomposition of Hydrazine over Supported Molybdenum Nitride Catalysts in a Monopropellant Thruster. <i>Catalysis Letters</i> , 2002 , 79, 21-25	2.8	42
105	Catalytic Performance of Activated Carbon Supported Tungsten Carbide for Hydrazine Decomposition. <i>Catalysis Letters</i> , 2008 , 123, 150-155	2.8	40
104	Controlling CO Hydrogenation Selectivity by Metal-Supported Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19983-19989	16.4	40

103	Identification of the chemical state of Fe in barium hexaaluminate using Rietveld refinement and ^{57}Fe Mössbauer spectroscopy. <i>Journal of Catalysis</i> , 2011 , 283, 149-160	7.3	38
102	Catalytic conversion of cellulosic biomass to ethylene glycol: Effects of inorganic impurities in biomass. <i>Bioresource Technology</i> , 2015 , 175, 424-9	11	37
101	Zinc-modulated Fe γ Prussian blue analogues with well-controlled morphologies for the efficient sorption of cesium. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3284-3292	13	36
100	La-hexaaluminate for synthesis gas generation by Chemical Looping Partial Oxidation of Methane Using CO $_2$ as Sole Oxidant. <i>AIChE Journal</i> , 2018 , 64, 550-563	3.6	36
99	Effect of Regeneration Period on the Selectivity of Synthesis Gas of Ba-Hexaaluminates in Chemical Looping Partial Oxidation of Methane. <i>ACS Catalysis</i> , 2019 , 9, 722-731	13.1	36
98	In situ encapsulation of iron(0) for solar thermochemical syngas production over iron-based perovskite material. <i>Communications Chemistry</i> , 2018 , 1,	6.3	36
97	Catalytic Conversion of Carbohydrates to Methyl Lactate Using Isolated Tin Sites in SBA-15. <i>ChemistrySelect</i> , 2017 , 2, 309-314	1.8	35
96	Preparation of Cobalt Nitride from Co γ Al Hydrotalcite and its Application in Hydrazine Decomposition. <i>Topics in Catalysis</i> , 2009 , 52, 1535-1540	2.3	35
95	Microwave effects on the selective reduction of NO by CH $_4$ over an InBe $_2$ O $_3$ /HZSM-5 catalyst. <i>Chemical Communications</i> , 2000 , 279-280	5.8	33
94	Dual-bed catalyst system for the direct synthesis of high density aviation fuel with cyclopentanone from lignocellulose. <i>AIChE Journal</i> , 2016 , 62, 2754-2761	3.6	33
93	Synthesis of Renewable Triketones, Diketones, and Jet-Fuel Range Cycloalkanes with 5-Hydroxymethylfurfural and Ketones. <i>ChemSusChem</i> , 2017 , 10, 711-719	8.3	32
92	Production of Renewable Jet Fuel Range Branched Alkanes with Xylose and Methyl Isobutyl Ketone. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 13618-13625	3.9	32
91	Industrially scalable and cost-effective synthesis of 1,3-cyclopentanediol with furfuryl alcohol from lignocellulose. <i>Green Chemistry</i> , 2016 , 18, 3607-3613	10	31
90	Improving Syngas Selectivity of Fe $_2$ O $_3$ /Al $_2$ O $_3$ with Yttrium Modification in Chemical Looping Methane Conversion. <i>ACS Catalysis</i> , 2019 , 9, 8373-8382	13.1	31
89	ZnAl-Hydrotalcite-Supported Au $_25$ Nanoclusters as Precatalysts for Chemoselective Hydrogenation of 3-Nitrostyrene. <i>Angewandte Chemie</i> , 2017 , 129, 2753-2757	3.6	30
88	Highly efficient synthesis of 5-hydroxymethylfurfural with carbohydrates over renewable cyclopentanone-based acidic resin. <i>Green Chemistry</i> , 2017 , 19, 1855-1860	10	30
87	A molten carbonate shell modified perovskite redox catalyst for anaerobic oxidative dehydrogenation of ethane. <i>Science Advances</i> , 2020 , 6, eaaz9339	14.3	30
86	Synthesis, characterization, and catalytic application of highly ordered mesoporous alumina-carbon nanocomposites. <i>Nano Research</i> , 2011 , 4, 50-60	10	30

85	Catalytically Active Rh Sub-Nanoclusters on TiO ₂ for CO Oxidation at Cryogenic Temperatures. <i>Angewandte Chemie</i> , 2016 , 128, 2870-2874	3.6	29
84	A facile peroxo-precursor synthesis method and structure evolution of large specific surface area mesoporous BaSnO ₃ . <i>Inorganic Chemistry</i> , 2015 , 54, 4002-10	5.1	28
83	Novel Alumina-Supported PtFe Alloy Nanoparticles for Preferential Oxidation of Carbon Monoxide in Hydrogen. <i>Catalysis Letters</i> , 2008 , 125, 76-82	2.8	28
82	Bimetallic BaFe ₂ MA ₁₉ O ₁₉ (M = Mn, Ni, and Co) hexaaluminates as oxygen carriers for chemical looping dry reforming of methane. <i>Applied Energy</i> , 2020 , 258, 114070	10.7	28
81	Direct synthesis of gasoline and diesel range branched alkanes with acetone from lignocellulose. <i>Green Chemistry</i> , 2016 , 18, 3707-3711	10	28
80	Synthesis of jet fuel range cycloalkanes with diacetone alcohol from lignocellulose. <i>Green Chemistry</i> , 2016 , 18, 5751-5755	10	28
79	More active Ir subnanometer clusters than single-atoms for catalytic oxidation of CO at low temperature. <i>AIChE Journal</i> , 2017 , 63, 4003-4012	3.6	27
78	Production of renewable 1,3-pentadiene from xylitol via formic acid-mediated deoxydehydration and palladium-catalyzed deoxygenation reactions. <i>Green Chemistry</i> , 2017 , 19, 638-642	10	27
77	H ₂ production by selective decomposition of hydrous hydrazine over Raney Ni catalyst under ambient conditions. <i>AIChE Journal</i> , 2013 , 59, 4297-4302	3.6	26
76	Pd@C ₃ N ₄ nanocatalyst for highly efficient hydrogen storage system based on potassium bicarbonate/formate. <i>AIChE Journal</i> , 2016 , 62, 2410-2418	3.6	26
75	Fe-substituted Ba-hexaaluminates oxygen carrier for carbon dioxide capture by chemical looping combustion of methane. <i>AIChE Journal</i> , 2016 , 62, 792-801	3.6	26
74	A novel CeO ₂ SnO ₂ /Ce ₂ Sn ₂ O ₇ pyrochlore cycle for enhanced solar thermochemical water splitting. <i>AIChE Journal</i> , 2017 , 63, 3450-3462	3.6	25
73	Unravelling platinum nanoclusters as active sites to lower the catalyst loading for formaldehyde oxidation. <i>Communications Chemistry</i> , 2019 , 2,	6.3	25
72	Evolution of Fe Crystallographic Sites from Barium Hexaaluminate to Hexaferrite. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 671-680	3.8	23
71	Synthesis of renewable diesel with 2-methylfuran and angelica lactone derived from carbohydrates. <i>Green Chemistry</i> , 2016 , 18, 1218-1223	10	22
70	A Noble-Metal-Free Catalyst Derived from Ni-Al Hydrotalcite for Hydrogen Generation from N ₂ H ₄ ?H ₂ O Decomposition. <i>Angewandte Chemie</i> , 2012 , 124, 6295-6298	3.6	22
69	High performance of la-promoted Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier for chemical looping combustion. <i>AIChE Journal</i> , 2017 , 63, 2827-2838	3.6	21
68	Dehydration of Carbohydrates to 5-Hydroxymethylfurfural over Lignosulfonate-Based Acidic Resin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5645-5652	8.3	21

67	A two-step synthesis of Fe-substituted hexaaluminates with enhanced surface area and activity in methane catalytic combustion. <i>Catalysis Science and Technology</i> , 2016 , 6, 4962-4969	5.5	21
66	Thermal Evolution Crystal Structure and Fe Crystallographic Sites in LaFe _{0.9} Al ₁₂ O ₁₉ Hexaaluminates. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10792-10804	3.8	21
65	Ethylene glycol production from glucose over W-Ru catalysts: Maximizing yield by kinetic modeling and simulation. <i>AIChE Journal</i> , 2017 , 63, 2072-2080	3.6	21
64	Synthesis of gasoline and jet fuel range cycloalkanes and aromatics from poly(ethylene terephthalate) waste. <i>Green Chemistry</i> , 2019 , 21, 2709-2719	10	20
63	Effect of Ir crystallographic site on the catalytic performance of Ir-substituted barium hexaferrites for N ₂ O decomposition. <i>Applied Catalysis A: General</i> , 2011 , 409-410, 194-201	5.1	20
62	Catalytic decomposition of propellant N ₂ O Over Ir/Al ₂ O ₃ catalyst. <i>AIChE Journal</i> , 2016 , 62, 3973-3981	3.6	20
61	Selective removal of 1,2-propanediol and 1,2-butanediol from bio-ethylene glycol by catalytic reaction. <i>AIChE Journal</i> , 2017 , 63, 4032-4042	3.6	19
60	Metal modified hexaaluminates for syngas generation and CO ₂ utilization via chemical looping. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10218-10231	6.7	19
59	Rhodium Supported on Silica-Stabilized Alumina for Catalytic Decomposition of N ₂ O. <i>Catalysis Letters</i> , 2011 , 141, 128-135	2.8	19
58	Synthesis of high-density aviation fuels with methyl benzaldehyde and cyclohexanone. <i>Green Chemistry</i> , 2018 , 20, 3753-3760	10	18
57	Rh single atom catalyst for direct conversion of methane to oxygenates. <i>Science China Materials</i> , 2018 , 61, 758-760	7.1	17
56	Synthesis of jet fuel range branched cycloalkanes with mesityl oxide and 2-methylfuran from lignocellulose. <i>Scientific Reports</i> , 2016 , 6, 32379	4.9	17
55	Synthesis of renewable high-density fuel with isophorone. <i>Scientific Reports</i> , 2017 , 7, 6111	4.9	17
54	Sustainable production of pyromellitic acid with pinacol and diethyl maleate. <i>Green Chemistry</i> , 2017 , 19, 1663-1667	10	16
53	Synthesis of jet fuel range high-density polycycloalkanes with polycarbonate waste. <i>Green Chemistry</i> , 2019 , 21, 3789-3795	10	16
52	Identifying the Role of A-Site Cations in Modulating Oxygen Capacity of Iron-Based Perovskite for Enhanced Chemical Looping Methane-to-Syngas Conversion. <i>ACS Catalysis</i> , 2020 , 10, 9420-9430	13.1	16
51	A Mössbauer study of InFe ₂ O ₃ /HZSM-5 catalysts for the selective catalytic reduction of NO by methane. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 2846-2851	3.6	16
50	Identification of Active Sites on High-Performance Pt/Al ₂ O ₃ Catalyst for Cryogenic CO Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 8815-8824	13.1	16

49	High-Efficiency Water Gas Shift Reaction Catalysis on HMoC Promoted by Single-Atom Ir Species. <i>ACS Catalysis</i> , 2021 , 11, 5942-5950	13.1	16
48	Silica Modified Alumina As Supports of Fe_2O_3 with High Performance in Chemical Looping Combustion of Methane. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12884-12892	8.3	16
47	Effect of magnesium substitution into Fe-based La-hexaaluminates on the activity for CH_4 catalytic combustion. <i>Catalysis Science and Technology</i> , 2016 , 6, 7860-7867	5.5	15
46	Synthesis of bio-based methylcyclopentadiene via direct hydrodeoxygenation of 3-methylcyclopent-2-enone derived from cellulose. <i>Nature Communications</i> , 2021 , 12, 46	17.4	15
45	Reactivity of Methanol Steam Reforming on ZnPd Intermetallic Catalyst: Understanding from Microcalorimetric and FT-IR Studies. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12395-12403	3.8	15
44	Sustainable Production of o-Xylene from Biomass-Derived Pinacol and Acrolein. <i>ChemSusChem</i> , 2017 , 10, 2880-2885	8.3	14
43	Promoting Role of Fe in the Preferential Oxidation of CO Over Ir/ Al_2O_3 . <i>Catalysis Letters</i> , 2008 , 121, 319-323	2.8	14
42	Promoted methane conversion to syngas over Fe-based garnets via chemical looping. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119305	21.8	13
41	Anti-coke $\text{BaFe}_{1-x}\text{Sn}_x\text{O}_3$ Oxygen Carriers for Enhanced Syngas Production via Chemical Looping Partial Oxidation of Methane. <i>Energy & Fuels</i> , 2020 , 34, 6991-6998	4.1	13
40	Isolating Single and Few Atoms for Enhanced Catalysis.. <i>Advanced Materials</i> , 2022 , e2201796	24	12
39	Direct Synthesis of Renewable Dodecanol and Dodecane with Methyl Isobutyl Ketone over Dual-Bed Catalyst Systems. <i>ChemSusChem</i> , 2017 , 10, 825-829	8.3	11
38	Synthesis of Decaline-Type Thermal-Stable Jet Fuel Additives with Cycloketones. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17354-17361	8.3	11
37	One-Pot Catalytic Transformation of Dicyclopentadiene to High Energy Density Fuel Exo-tetrahydrotricyclopentadiene. <i>Topics in Catalysis</i> , 2015 , 58, 350-358	2.3	11
36	Optimization and simulation of the Sabatier reaction process in a packed bed. <i>AIChE Journal</i> , 2016 , 62, 2879-2892	3.6	11
35	Structure Evolution and Hydrogenation Performance of IrFe Bimetallic Nanomaterials. <i>Langmuir</i> , 2016 , 32, 2771-9	4	11
34	Preparation of BaSnO_3 and $\text{Ba}_{0.96}\text{La}_{0.04}\text{SnO}_3$ by reactive core-shell precursor: formation process, CO sensitivity, electronic and optical properties analysis. <i>RSC Advances</i> , 2016 , 6, 25379-25387	3.7	11
33	Making JP-10 Superfuel Affordable with a Lignocellulosic Platform Compound. <i>Angewandte Chemie</i> , 2019 , 131, 12282-12286	3.6	11
32	Selective catalytic reduction of NO with propene over Au/ CeO_2 / Al_2O_3 catalysts 2007 , 40, 52-58		11

31	Kinetic study on catalytic dehydration of 1,2-propanediol and 1,2-butanediol over H-Beta for bio-ethylene glycol purification. <i>Chemical Engineering Journal</i> , 2018 , 335, 530-538	14.7	10
30	Identification of the Crystallographic Sites of Ir in BaIr _{0.2} FeAl _{10.8} O ₁₉ Hexaaluminate. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24487-24495	3.8	10
29	Selective Catalytic Reduction of NO with CH ₄ Over In ₂ Se ₃ /Sulfated Zirconia Catalysts. <i>Catalysis Letters</i> , 2011 , 141, 1491-1497	2.8	9
28	Direct Synthesis of Methylcyclopentadiene with 2,5-Hexanedione over Zinc Molybdates. <i>ACS Catalysis</i> , 2021 , 11, 4810-4820	13.1	9
27	Steady-state behavior of liquid fuel hydrazine decomposition in packed bed. <i>AIChE Journal</i> , 2015 , 61, 1064-1080	3.6	8
26	Thermodynamic analysis of chemical looping coupling process for coproducing syngas and hydrogen with in situ CO ₂ utilization. <i>Energy Conversion and Management</i> , 2021 , 231, 113845	10.6	8
25	Recent Advances of Oxygen Carriers for Chemical Looping Reforming of Methane. <i>ChemCatChem</i> , 2021 , 13, 1615-1637	5.2	8
24	Direct synthesis of a high-density aviation fuel using a polycarbonate. <i>Green Chemistry</i> , 2021 , 23, 912-919	10	7
23	Highly Active and Anticoke Ni/CeO ₂ with Ultralow Ni Loading in Chemical Looping Dry Reforming via the Strong Metal-Support Interaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 17276-17288	8.3	6
22	Reduction of SO ₂ by CO under Plasma-assisted Catalytic System Induced by Microwave. <i>Catalysis Letters</i> , 2006 , 109, 109-113	2.8	5
21	Near 100% ethene selectivity achieved by tailoring dual active sites to isolate dehydrogenation and oxidation. <i>Nature Communications</i> , 2021 , 12, 5447	17.4	5
20	Gold supported on surface acidity modified ZSM-5 for SCR of NO with propene. <i>Reaction Kinetics and Catalysis Letters</i> , 2007 , 92, 33-39		4
19	Pd/sulfated alumina: a new effective catalyst for the selective catalytic reduction of NO with CH ₄ . <i>Topics in Catalysis</i> , 2004 , 30/31, 103-105	2.3	4
18	Kinetics of the Selective Reduction of NO with CH ₄ Over an In-Fe ₂ O ₃ /HZSM-5 Catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , 2000 , 69, 299-303		4
17	MoC Supported Noble Metal Catalysts for Water-Gas Shift Reaction: Single-Atom Promoter or Single-Atom Player. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11415-11421	6.4	4
16	Widening Temperature Window for CO Preferential Oxidation in H ₂ by Ir Nanoparticles Interaction with Framework Fe of Hexaaluminate. <i>ACS Catalysis</i> , 2021 , 11, 5709-5717	13.1	4
15	Controlling CO ₂ Hydrogenation Selectivity by Metal-Supported Electron Transfer. <i>Angewandte Chemie</i> , 2020 , 132, 20158-20164	3.6	3
14	Direct synthesis of a jet fuel range dicycloalkane by the aqueous phase hydrodeoxygenation of polycarbonate. <i>Green Chemistry</i> , 2021 , 23, 3693-3699	10	3

13	Defect-Rich TiO ₂ In Situ Evolved from MXene for the Enhanced Oxidative Dehydrogenation of Ethane to Ethylene. <i>ACS Catalysis</i> , 2021 , 11, 15223-15233	13.1	3
12	Oxygen Activity Tuning via FeO ₆ Octahedral Tilting in Perovskite Ferrites for Chemical Looping Dry Reforming of Methane. <i>ACS Catalysis</i> , 7326-7335	13.1	3
11	Promotional role of CeO ₂ in reduction of NO with activated carbon under oxygen-rich atmosphere. <i>Topics in Catalysis</i> , 2007 , 42-43, 263-266	2.3	2
10	Cover Picture: Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts (Angew. Chem. Int. Ed. 44/2008). <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8321-8321	16.4	2
9	Selective catalytic oxidation of ammonia to nitric oxide via chemical looping.. <i>Nature Communications</i> , 2022 , 13, 718	17.4	2
8	Effect of calcination temperature on the performance of hexaaluminate supported CeO ₂ for chemical looping dry reforming. <i>Fuel Processing Technology</i> , 2021 , 218, 106873	7.2	2
7	A novel carbon cycle process assisted by Ni/La ₂ O ₃ catalyst for enhanced thermochemical CO ₂ splitting. <i>Journal of Energy Chemistry</i> , 2021 , 61, 297-303	12	2
6	Synthesis of jet fuel and diesel range cycloalkanes with 2-methylfuran and benzaldehyde. <i>Sustainable Energy and Fuels</i> ,	5.8	1
5	R&Ktitelbild: Hydroformylation of Olefins by a Rhodium Single-Atom Catalyst with Activity Comparable to RhCl(PPh ₃) ₃ (Angew. Chem. 52/2016). <i>Angewandte Chemie</i> , 2016 , 128, 16412-16412	3.6	1
4	Intensified solar thermochemical CO ₂ splitting over iron-based redox materials via perovskite-mediated dealloying-exsolution cycles. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 2049-2058	11.3	1
3	Titelbild: Direct Catalytic Conversion of Cellulose into Ethylene Glycol Using Nickel-Promoted Tungsten Carbide Catalysts (Angew. Chem. 44/2008). <i>Angewandte Chemie</i> , 2008 , 120, 8445-8445	3.6	
2	R&Ktitelbild: Catalytically Active Rh Sub-Nanoclusters on TiO ₂ for CO Oxidation at Cryogenic Temperatures (Angew. Chem. 8/2016). <i>Angewandte Chemie</i> , 2016 , 128, 2998-2998	3.6	
1	Synthesis of renewable alkylated naphthalenes with benzaldehyde and angelica lactone. <i>Green Chemistry</i> , 2021 , 23, 5474-5480	10	