

Yunhan Sun

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286
papers

9,651
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51
h-index

84
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306
ext. papers

11,799
ext. citations

7
avg, IF

6.46
L-index

#	Paper	IF	Citations
286	Direct conversion of CO into liquid fuels with high selectivity over a bifunctional catalyst. <i>Nature Chemistry</i> , 2017 , 9, 1019-1024	17.6	498
285	Cobalt carbide nanoprisms for direct production of lower olefins from syngas. <i>Nature</i> , 2016 , 538, 84-87	50.4	460
284	A short review of heterogeneous catalytic process for mixed alcohols synthesis via syngas. <i>Catalysis Today</i> , 2009 , 147, 133-138	5.3	277
283	A review of the catalytic hydrogenation of carbon dioxide into value-added hydrocarbons. <i>Catalysis Science and Technology</i> , 2017 , 7, 4580-4598	5.5	251
282	Influence of Zr on the performance of Cu/Zn/Al/Zr catalysts via hydrotalcite-like precursors for CO ₂ hydrogenation to methanol. <i>Journal of Catalysis</i> , 2013 , 298, 51-60	7.3	240
281	Direct Production of Lower Olefins from CO ₂ Conversion via Bifunctional Catalysis. <i>ACS Catalysis</i> , 2018 , 8, 571-578	13.1	232
280	Metal-Free Nitrogen-Doped Mesoporous Carbon for Electroreduction of CO to Ethanol. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10840-10844	16.4	214
279	Exclusive Formation of Formic Acid from CO Electroreduction by a Tunable Pd-Sn Alloy. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12219-12223	16.4	196
278	Single-Crystalline Dodecahedral and Octadecahedral Fe ₂ O ₃ Particles Synthesized by a Fluoride Anion-Assisted Hydrothermal Method. <i>Advanced Functional Materials</i> , 2010 , 20, 3987-3996	15.6	164
277	Controlled Synthesis of N-Doped Carbon Nanospheres with Tailored Mesopores through Self-Assembly of Colloidal Silica. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15191-6	16.4	148
276	C(sp ³)-H functionalizations of light hydrocarbons using decatungstate photocatalysis in flow. <i>Science</i> , 2020 , 369, 92-96	33.3	128
275	pH-Responsive Drug Release from Polymer-Coated Mesoporous Silica Spheres. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12753-12758	3.8	113
274	Self-Assembly of Thiourea-Crosslinked Graphene Oxide Framework Membranes toward Separation of Small Molecules. <i>Advanced Materials</i> , 2018 , 30, e1705775	24	110
273	Effect of pore structure on Ni catalyst for CO ₂ reforming of CH ₄ . <i>Energy and Environmental Science</i> , 2010 , 3, 366	35.4	108
272	Größe Kohlenstoffwissenschaft: eine wissenschaftliche Grundlage für das Verknüpfen von Verarbeitung, Nutzung und Recycling der Kohlenstoffressourcen. <i>Angewandte Chemie</i> , 2013 , 125, 9798-9812	36	106
271	Synthesis of dimethyl carbonate by transesterification over CaO/carbon composites. <i>Green Chemistry</i> , 2003 , 5, 343	10	105
270	Effects of Sodium on the Catalytic Performance of CoMn Catalysts for Fischer-Tropsch to Olefin Reactions. <i>ACS Catalysis</i> , 2017 , 7, 3622-3631	13.1	104

269	CuFe, CuCo and CuNi nanoparticles as catalysts for higher alcohol synthesis from syngas: a comparative study. <i>Catalysis Science and Technology</i> , 2013 , 3, 1591	5.5	104
268	Advances in bifunctional catalysis for higher alcohol synthesis from syngas. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 116-129	11.3	98
267	Methanol synthesis from CO ₂ hydrogenation over La _{1-x} M _x CuZnO (M=Ca, Ce, Mg, Zr) catalysts derived from perovskite-type precursors. <i>Journal of Power Sources</i> , 2014 , 251, 113-121	8.9	97
266	Disulfide-Catalyzed Visible-Light-Mediated Oxidative Cleavage of C=C Bonds and Evidence of an Olefin-Disulfide Charge-Transfer Complex. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 832-836	16.4	89
265	Selective Production of Aromatics Directly from Carbon Dioxide Hydrogenation. <i>ACS Catalysis</i> , 2019 , 9, 3866-3876	13.1	89
264	Rationally designed indium oxide catalysts for CO hydrogenation to methanol with high activity and selectivity. <i>Science Advances</i> , 2020 , 6, eaaz2060	14.3	84
263	Strain improvement of Chlorella sp. for phenol biodegradation by adaptive laboratory evolution. <i>Bioresource Technology</i> , 2016 , 205, 264-8	11	76
262	Preparation and activity of Cu/Zn/Al/Zr catalysts via hydrotalcite-containing precursors for methanol synthesis from CO ₂ hydrogenation. <i>Catalysis Science and Technology</i> , 2012 , 2, 1447	5.5	76
261	Highly efficient Cu-based catalysts via hydrotalcite-like precursors for CO ₂ hydrogenation to methanol. <i>Catalysis Today</i> , 2017 , 281, 327-336	5.3	73
260	0D-2D Quantum Dot: Metal Dichalcogenide Nanocomposite Photocatalyst Achieves Efficient Hydrogen Generation. <i>Advanced Materials</i> , 2017 , 29, 1605646	24	73
259	Exclusive Formation of Formic Acid from CO ₂ Electroreduction by a Tunable Pd-Sn Alloy. <i>Angewandte Chemie</i> , 2017 , 129, 12387-12391	3.6	72
258	Enhanced Electrocatalysis via 3D Graphene Aerogel Engineered with a Silver Nanowire Network for Ultrahigh-Rate Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1700041	15.6	70
257	Synthesis of Dimethyl Carbonate from Urea and Methanol over ZnO. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7596-7599	3.9	70
256	Strict molecular sieving over electrodeposited 2D-interspacing-narrowed graphene oxide membranes. <i>Nature Communications</i> , 2017 , 8, 825	17.4	69
255	Yttrium oxide modified Cu/ZnO/Al ₂ O ₃ catalysts via hydrotalcite-like precursors for CO ₂ hydrogenation to methanol. <i>Catalysis Science and Technology</i> , 2015 , 5, 4365-4377	5.5	66
254	Catalytic performance of spray-dried Cu/ZnO/Al ₂ O ₃ /ZrO ₂ catalysts for slurry methanol synthesis from CO ₂ hydrogenation. <i>Journal of CO₂ Utilization</i> , 2016 , 15, 72-82	7.6	62
253	Recent advances in the investigation of nanoeffects of Fischer-Tropsch catalysts. <i>Catalysis Today</i> , 2018 , 311, 8-22	5.3	61
252	Structural evolution of CuFe bimetallic nanoparticles for higher alcohol synthesis. <i>Journal of Molecular Catalysis A</i> , 2013 , 378, 319-325		61

251	Effect of pore size on the performance of mesoporous zirconia-supported cobalt Fischer-Tropsch catalysts. <i>Green Chemistry</i> , 2007 , 9, 611-615	10	59
250	The Properties of Individual Carbon Residuals and Their Influence on The Deactivation of Ni ₂ O ₃ /Al ₂ O ₃ Catalysts in CH ₄ Dry Reforming. <i>ChemCatChem</i> , 2014 , 6, 640-648	5.2	58
249	The Effect of Nitrogen on the Autoreduction of Cobalt Nanoparticles Supported on Nitrogen-Doped Ordered Mesoporous Carbon for the Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2014 , 6, 319-327	5.2	57
248	Selective Transformation of CO and H ₂ into Lower Olefins over In ₂ O ₃ -ZnZrO ₂ /SAPO-34 Bifunctional Catalysts. <i>ChemSusChem</i> , 2019 , 12, 3582-3591	8.3	56
247	Carbon-based adsorbents for post-combustion capture: a review 2018 , 8, 11-36		56
246	Comparative study of wastewater treatment and nutrient recycle via activated sludge, microalgae and combination systems. <i>Bioresource Technology</i> , 2016 , 211, 1-5	11	56
245	High-Yield Synthesis of Dimethyl Carbonate from Urea and Methanol Using a Catalytic Distillation Process. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 2683-2687	3.9	56
244	Highly stable mesoporous NiO _x /ZnO _x /Al ₂ O ₃ catalysts for CO ₂ reforming of methane: effect of Ni embedding and Y ₂ O ₃ promotion. <i>Catalysis Science and Technology</i> , 2016 , 6, 449-459	5.5	54
243	Exploring the Effect of Co ₃ O ₄ Nanocatalysts with Different Dimensional Architectures on Methane Combustion. <i>ChemCatChem</i> , 2016 , 8, 540-545	5.2	54
242	Facile synthesis of catalytically active CeO ₂ for soot combustion. <i>Catalysis Science and Technology</i> , 2015 , 5, 1941-1952	5.5	54
241	Ni/ADM: a high activity and selectivity to C ₂ +OH catalyst for catalytic conversion of synthesis gas to C ₁ -C ₅ mixed alcohols. <i>Topics in Catalysis</i> , 2005 , 32, 233-239	2.3	54
240	Adsorption-intensified degradation of organic pollutants over bifunctional Fe@carbon nanofibres. <i>Environmental Science: Nano</i> , 2017 , 4, 302-306	7.1	53
239	Deactivation study of CuCo catalyst for higher alcohol synthesis via syngas. <i>Catalysis Today</i> , 2016 , 270, 101-107	5.3	52
238	Coke suppression in MTO over hierarchical SAPO-34 zeolites. <i>RSC Advances</i> , 2016 , 6, 28787-28791	3.7	52
237	Novel Heterogeneous Catalysts for CO Hydrogenation to Liquid Fuels. <i>ACS Central Science</i> , 2020 , 6, 1657-1670	11.6	52
236	Single atomic Ag enhances the bifunctional activity and cycling stability of MnO ₂ . <i>Chemical Engineering Journal</i> , 2019 , 366, 631-638	14.7	52
235	A Nickel-Based Perovskite Catalyst with a Bimodal Size Distribution of Nickel Particles for Dry Reforming of Methane. <i>ChemCatChem</i> , 2018 , 10, 2078-2086	5.2	51
234	Metal-Free Nitrogen-Doped Mesoporous Carbon for Electroreduction of CO ₂ to Ethanol. <i>Angewandte Chemie</i> , 2017 , 129, 10980-10984	3.6	51

233	Grafting of Amines on Ethanol-Extracted SBA-15 for CO Adsorption. <i>Materials</i> , 2013 , 6, 981-999	3.5	51
232	CaO/ZrO ₂ Solid Solution: A Highly Stable Catalyst for the Synthesis of Dimethyl Carbonate from Propylene Carbonate and Methanol. <i>Catalysis Letters</i> , 2005 , 105, 253-257	2.8	50
231	The intrinsic effects of shell thickness on the Fischer-Tropsch synthesis over core-shell structured catalysts. <i>Catalysis Science and Technology</i> , 2013 , 3, 3250	5.5	49
230	Direct Production of Higher Oxygenates by Syngas Conversion over a Multifunctional Catalyst. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4627-4631	16.4	47
229	Mechanism of the Mn Promoter via CoMn Spinel for Morphology Control: Formation of Co ₂ C Nanoprisms for Fischer-Tropsch to Olefins Reaction. <i>ACS Catalysis</i> , 2017 , 7, 8023-8032	13.1	46
228	Fluorinated Cu/Zn/Al/Zr hydrotalcites derived nanocatalysts for CO ₂ hydrogenation to methanol. <i>Journal of CO₂ Utilization</i> , 2016 , 16, 32-41	7.6	46
227	Constructing Hierarchically Hollow Core-Shell MnO ₂ /C Hybrid Spheres for High-Performance Lithium Storage. <i>Small</i> , 2016 , 12, 3914-9	11	46
226	Palladium single atoms supported by interwoven carbon nanotube and manganese oxide nanowire networks for enhanced electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23366-23377	13	45
225	Unsupported CuFe bimetallic nanoparticles for higher alcohol synthesis via syngas. <i>Catalysis Communications</i> , 2013 , 40, 154-157	3.2	44
224	Advances in direct production of value-added chemicals via syngas conversion. <i>Science China Chemistry</i> , 2017 , 60, 887-903	7.9	43
223	Efficient dehydration of the organic solvents through graphene oxide (GO)/ceramic composite membranes. <i>RSC Advances</i> , 2014 , 4, 52012-52015	3.7	43
222	Controlled Synthesis of N-Doped Carbon Nanospheres with Tailored Mesopores through Self-Assembly of Colloidal Silica. <i>Angewandte Chemie</i> , 2015 , 127, 15406-15411	3.6	43
221	n-Dodecane Hydroconversion over Ni/AlMCM-41 Catalysts. <i>Catalysis Letters</i> , 2004 , 93, 235-242	2.8	43
220	Fischer-Tropsch Synthesis to Olefins: Catalytic Performance and Structure Evolution of Co ₂ C-Based Catalysts under a CO ₂ Environment. <i>ACS Catalysis</i> , 2019 , 9, 9554-9567	13.1	42
219	La ₂ O ₃ catalysts with diverse spatial dimensionality for oxidative coupling of methane to produce ethylene and ethane. <i>RSC Advances</i> , 2016 , 6, 34872-34876	3.7	41
218	Stable and efficient aromatic yield from methanol over alkali treated hierarchical Zn-containing HZSM-5 zeolites. <i>Microporous and Mesoporous Materials</i> , 2016 , 231, 110-116	5.3	41
217	Studies of Cobalt Particle Size Effects on Fischer-Tropsch Synthesis over Core-Shell-Structured Catalysts. <i>ChemCatChem</i> , 2013 , 5, 3794-3801	5.2	39
216	Facile one-pot synthesis of mesoporous carbon and N-doped carbon for CO ₂ capture by a novel melting-assisted solvent-free method. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23990-23999	13	38

215	Slurry methanol synthesis from CO ₂ hydrogenation over micro-spherical SiO ₂ support Cu/ZnO catalysts. <i>Journal of CO₂ Utilization</i> , 2018 , 26, 642-651	7.6	38
214	Super Hydrophobic Mesoporous Silica with Anchored Methyl Groups on the Surface by a One-Step Synthesis without Surfactant Template. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 999-1004	3.8	38
213	Low-temperature hydrogen production from methanol steam reforming on Zn-modified Pt/MoC catalysts. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118500	21.8	38
212	Effect of various alkaline agents on the size and morphology of nano-sized HKUST-1 for CO ₂ adsorption. <i>RSC Advances</i> , 2015 , 5, 27901-27911	3.7	36
211	Significance of Surface Trivalent Manganese in the Electrocatalytic Activity of Water Oxidation in Undoped and Doped MnO ₂ Nanowires. <i>ChemCatChem</i> , 2015 , 7, 1848-1856	5.2	36
210	Surface-modified Improvement in Catalytic Performance of Cr(salen) Complexes Immobilized on MCM-41 in Solvent-Free Selective Oxidation of Benzyl Alcohol. <i>Catalysis Letters</i> , 2007 , 119, 87-94	2.8	36
209	A Simple Non-Aqueous Route to Anatase TiO ₂ . <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 1236-1240	3.4	36
208	Low temperature microwave-assisted pyrolysis of wood sawdust for phenolic rich compounds: Kinetics and dielectric properties analysis. <i>Bioresource Technology</i> , 2017 , 238, 109-115	11	33
207	Direct synthesis of long-chain alcohols from syngas over CoMn catalysts. <i>Applied Catalysis A: General</i> , 2018 , 549, 179-187	5.1	33
206	Modified Zinc Oxide for the Direct Synthesis of Propylene Carbonate from Propylene Glycol and Carbon dioxide. <i>Catalysis Letters</i> , 2007 , 118, 290-294	2.8	33
205	Fast capture of methyl-dyes over hierarchical amino-Co _{0.3} Ni _{0.7} Fe ₂ O ₄ @SiO ₂ nanofibrous membranes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22000-22004	13	32
204	Enhanced thermochemical CO ₂ splitting over Mg- and Ca-doped ceria/zirconia solid solutions. <i>RSC Advances</i> , 2014 , 4, 5583	3.7	32
203	Bimetallic Covalent Organic Frameworks for Constructing Multifunctional Electrocatalyst. <i>Chemistry - A European Journal</i> , 2019 , 25, 3105-3111	4.8	32
202	Morphology control of Co ₂ C nanostructures via the reduction process for direct production of lower olefins from syngas. <i>Journal of Catalysis</i> , 2018 , 366, 289-299	7.3	32
201	Enhanced Interactions between Gold and MnO ₂ Nanowires for Water Oxidation: A Comparison of Different Chemical and Physical Preparation Methods. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2049-2057	8.3	31
200	Surface-modified spherical activated carbon materials for pre-combustion carbon dioxide capture. <i>RSC Advances</i> , 2015 , 5, 33681-33690	3.7	31
199	Enhancing fermentation wastewater treatment by co-culture of microalgae with volatile fatty acid- and alcohol-degrading bacteria. <i>Algal Research</i> , 2018 , 31, 31-39	5	31
198	Synthesis of higher alcohols over highly dispersed Cu-Fe based catalysts derived from layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , 2016 , 470, 162-171	9.3	31

197	Enhanced Ethanol Production from CO Electroreduction at Micropores in Nitrogen-Doped Mesoporous Carbon. <i>ChemSusChem</i> , 2020 , 13, 293-297	8.3	30
196	Cu/Mn/ZrO ₂ catalyst for alcohol synthesis by Fischer-Tropsch modified elements. <i>Reaction Kinetics and Catalysis Letters</i> , 2002 , 75, 297-304		29
195	Au@PdO with a PdO-rich shell and Au-rich core embedded in CoO nanorods for catalytic combustion of methane. <i>Nanoscale</i> , 2017 , 9, 2123-2128	7.7	28
194	The oxidizing pretreatment-mediated autoreduction behaviour of cobalt nanoparticles supported on ordered mesoporous carbon for Fischer-Tropsch synthesis. <i>Catalysis Science and Technology</i> , 2014 , 4, 717	5.5	28
193	CO ₂ splitting via two step thermochemical reactions over doped ceria/zirconia solid solutions. <i>RSC Advances</i> , 2013 , 3, 18878	3.7	28
192	Performance of the LaMnZnCuO Based Perovskite Precursors for Methanol Synthesis from CO ₂ Hydrogenation. <i>Catalysis Letters</i> , 2015 , 145, 1177-1185	2.8	27
191	Experimental and numerical investigation of fractal-tree-like heat exchanger manufactured by 3D printing. <i>Chemical Engineering Science</i> , 2019 , 195, 250-261	4.4	27
190	Fischer-Tropsch Synthesis over Ordered Mesoporous Carbon Supported Cobalt Catalysts: The Role of Amount of Carbon Precursor in Catalytic Performance. <i>Catalysis Letters</i> , 2012 , 142, 195-204	2.8	27
189	Effects of metal promotion on CuMgFe catalysts derived from layered double hydroxides for higher alcohol synthesis via syngas. <i>RSC Advances</i> , 2015 , 5, 51868-51874	3.7	27
188	Carbon Dioxide Capture by MgO-modified MCM-41 Materials. <i>Adsorption Science and Technology</i> , 2009 , 27, 593-601	3.6	27
187	Preparation and CO ₂ hydrogenation catalytic properties of alumina microsphere supported Cu-based catalyst by deposition-precipitation method. <i>Journal of CO₂ Utilization</i> , 2017 , 17, 263-272	7.6	26
186	Facile one-pot solvent-free synthesis of hierarchical ZSM-5 for methanol to gasoline conversion. <i>RSC Advances</i> , 2016 , 6, 15816-15820	3.7	26
185	Epoxidation of Styrene with H ₂ O ₂ Catalyzed by Alanine-Salicylaldehyde Schiff Base Chromium (III) Complexes Immobilized on Mesoporous Materials. <i>Catalysis Letters</i> , 2010 , 136, 96-105	2.8	26
184	Effective synthesis of propylene carbonate from propylene glycol and carbon dioxide by alkali carbonates. <i>Catalysis Letters</i> , 2006 , 112, 187-191	2.8	26
183	Comparative techno-economic study of solar energy integrated hydrogen supply pathways for hydrogen refueling stations in China. <i>Energy Conversion and Management</i> , 2020 , 223, 113240	10.6	26
182	Nature inspired fractal tree-like photobioreactor via 3D printing for CO ₂ capture by microalgae. <i>Chemical Engineering Science</i> , 2019 , 193, 6-14	4.4	26
181	Synthesis of Higher Alcohols from Syngas over Ultrafine MoO ₃ Catalysts. <i>Catalysis Letters</i> , 2001 , 76, 249-253	2.8	25
180	Visualization of the Formation and 3D Porous Structure of Ag Doped MnO ₂ Aerogel Monoliths with High Photocatalytic Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 6277-6287	8.3	25

179	Insights into oil recovery, soil rehabilitation and low temperature behaviors of microwave-assisted petroleum-contaminated soil remediation. <i>Journal of Hazardous Materials</i> , 2019 , 377, 341-348	12.8	24
178	Efficient production of lactic acid from sugars over Sn-Beta zeolite in water: catalytic performance and mechanistic insights. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1163-1171	5.8	24
177	Investigation of the role of Nb on Pd γ Ir γ Zn catalyst in methanol steam reforming for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 11717-11733	6.7	24
176	Studies of Fe-doped SiO ₂ /TiO ₂ composite nanoparticles prepared by sol-gel-hydrothermal method. <i>Journal of Materials Science</i> , 2005 , 40, 3939-3943	4.3	24
175	Ultralow Pt Catalyst for Formaldehyde Removal: The Determinant Role of Support. <i>IScience</i> , 2018 , 9, 487-501	6.1	24
174	Effect of Sodium on the Structure-Performance Relationship of Co/SiO ₂ for Fischer-Tropsch Synthesis. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 918-926	4.9	23
173	Influence of element doping on LaMnCuO based perovskite precursors for methanol synthesis from CO ₂ /H ₂ . <i>RSC Advances</i> , 2014 , 4, 48888-48896	3.7	23
172	Ammonia Catalyzed Hydrolysis-Condensation Kinetics of Tetraethoxysilane/Dimethyldiethoxysilane Mixtures Studied by ²⁹ Si NMR and SAXS. <i>Journal of Solution Chemistry</i> , 2007 , 36, 327-344	1.8	23
171	Effect of the support on cobalt carbide catalysts for sustainable production of olefins from syngas. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1869-1880	11.3	23
170	Ultra-tiny Co(OH) ₂ particles supported on graphene oxide for highly efficient electrocatalytic water oxidation. <i>RSC Advances</i> , 2015 , 5, 39075-39079	3.7	22
169	Optimization of a Decatungstate-Catalyzed C(sp)-H Alkylation Using a Continuous Oscillatory Millistructured Photoreactor. <i>Organic Process Research and Development</i> , 2020 , 24, 2356-2361	3.9	22
168	Melting-assisted solvent-free synthesis of hierarchical SAPO-34 with enhanced methanol to olefins (MTO) performance. <i>Catalysis Science and Technology</i> , 2018 , 8, 423-427	5.5	22
167	Morphology control of SAPO-34 by microwave synthesis and their performance in the methanol to olefins reaction. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2014 , 111, 319-334	1.6	22
166	Phase transition of silica in the TMB-P123-H ₂ O-TEOS quadru-component system: a feasible route to different mesostructured materials. <i>Journal of Colloid and Interface Science</i> , 2014 , 433, 176-182	9.3	22
165	Chromium-based metal-organic framework/mesoporous carbon composite: synthesis, characterization and CO ₂ adsorption. <i>Adsorption</i> , 2015 , 21, 77-86	2.6	22
164	Particle Size Effects of Cobalt Carbide for Fischer-Tropsch to Olefins. <i>ACS Catalysis</i> , 2019 , 9, 798-809	13.1	22
163	Recent advances in the catalytic conversion of CO ₂ to value added compounds. <i>Science China Chemistry</i> , 2015 , 58, 79-92	7.9	21
162	Feasibility analysis of nuclear-coal hybrid energy systems from the perspective of low-carbon development. <i>Applied Energy</i> , 2015 , 158, 619-630	10.7	21

161	Controlled Preparation of Co ₃ O ₄ @porous-SiO ₂ Nanocomposites for Fischer-Tropsch Synthesis. <i>Catalysis Letters</i> , 2014 , 144, 516-523	2.8	21
160	Tuning pore size and hydrophobicity of macroporous hybrid silica films with high optical transmittance by a non-template route. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5557		21
159	Stable nanocrystalline zirconia sols prepared by a novel method: Alcohol thermal synthesis. <i>Journal of Materials Research</i> , 2000 , 15, 402-406	2.5	21
158	Disulfide-Catalyzed Visible-Light-Mediated Oxidative Cleavage of C=C Bonds and Evidence of an Olefin-Disulfide Charge-Transfer Complex. <i>Angewandte Chemie</i> , 2017 , 129, 850-854	3.6	20
157	Designing axial growth of Co-Ni bimetallic nanowires with hexagon-like caps and their catalytic hydrogenation for nitrobenzene. <i>Nanoscale</i> , 2016 , 8, 3949-53	7.7	20
156	Standing Carbon-Supported Trace Levels of Metal Derived from Covalent Organic Framework for Electrocatalysis. <i>Small</i> , 2019 , 15, e1905363	11	20
155	Influence of promoter on catalytic properties of Cu-Mn-Fe/ZrO ₂ catalysts for alcohols synthesis. <i>Reaction Kinetics and Catalysis Letters</i> , 2004 , 81, 91-98		20
154	Techno-economic evaluation of CO ₂ -rich natural gas dry reforming for linear alpha olefins production. <i>Energy Conversion and Management</i> , 2020 , 205, 112348	10.6	20
153	Highly efficient production of lactic acid from xylose using Sn-beta catalysts. <i>Green Chemistry</i> , 2020 , 22, 7333-7336	10	20
152	Rapid capture of Ponceau S via a hierarchical organic-organic hybrid nanofibrous membrane. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5423-5427	13	20
151	Enhanced n-dodecane hydroisomerization performance by tailoring acid sites on bifunctional Pt/ZSM-22 via alkaline treatment. <i>New Journal of Chemistry</i> , 2018 , 42, 111-117	3.6	20
150	Elucidation of reaction network of higher alcohol synthesis over modified FT catalysts by probe molecule experiments. <i>Catalysis Science and Technology</i> , 2015 , 5, 4224-4232	5.5	19
149	Formic Acid-Induced Controlled-Release Hydrolysis of Microalgae (<i>Scenedesmus</i>) to Lactic Acid over Sn-Beta Catalyst. <i>ChemSusChem</i> , 2018 , 11, 2492-2496	8.3	19
148	CO ₂ sorption in wet ordered mesoporous silica kit-6: effects of water content and mechanism on enhanced sorption capacity. <i>Adsorption</i> , 2014 , 20, 883-888	2.6	19
147	Sol-Gel Synthesis of Methyl Modified Optical Silica Coatings and Gels from DDS and TEOS. <i>Journal of Sol-Gel Science and Technology</i> , 2005 , 33, 19-24	2.3	19
146	Effect of Reaction Pressures on Structure-Performance of Co ₂ C-Based Catalyst for Syngas Conversion. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 15647-15653	3.9	19
145	Comparative environmental and economic performance of solar energy integrated methanol production systems in China. <i>Energy Conversion and Management</i> , 2019 , 187, 63-75	10.6	18
144	Morphology evolution of Fe ₂ O ₃ nanoparticles: the effect of dihydrogen phosphate anions. <i>CrystEngComm</i> , 2011 , 13, 7293	3.3	18

143	Effect of boric acid on the stabilization of poly(acrylonitrile-co-itaconic acid). <i>Journal of Polymer Research</i> , 2007 , 14, 497-503	2.7	18
142	A Short Review of Recent Advances in Direct CO ₂ Hydrogenation to Alcohols. <i>Topics in Catalysis</i> , 2021 , 64, 371-394	2.3	18
141	Effect of pore geometries on the catalytic properties of NiO/Al ₂ O ₃ catalysts in CO ₂ reforming of methane. <i>RSC Advances</i> , 2015 , 5, 21090-21098	3.7	17
140	Fast synthesis of submicron all-silica CHA zeolite particles using a seeding method. <i>RSC Advances</i> , 2015 , 5, 27087-27090	3.7	17
139	Catalyst Design for Selective Hydrodeoxygenation of Glycerol to 1,3-Propanediol. <i>ACS Catalysis</i> , 2020 , 10, 15217-15226	13.1	17
138	Promotion of CO Electrochemical Reduction via Cu Nanodendrites. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11562-11569	9.5	17
137	Solvent-Free Synthesis of c-Axis Oriented ZSM-5 Crystals with Enhanced Methanol to Gasoline Catalytic Activity. <i>ChemCatChem</i> , 2016 , 8, 3317-3322	5.2	17
136	Preparation and Properties of Octadecahedral Fe ₂ O ₃ Nanoparticles Enclosed by {104} and {112} Facets. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 4076-4081	2.3	17
135	Role of La ₂ O ₃ in Pd-Supported Catalysts for Methanol Decomposition. <i>Catalysis Letters</i> , 2002 , 84, 123-128	12.8	17
134	Structure Control of SiO ₂ Sol-Gels via Addition of PEG. <i>Studies in Surface Science and Catalysis</i> , 1998 , 118, 617-624	1.8	17
133	CO ₂ Chemisorption and Its Effect on Methane Activation in La ₂ O ₃ -Catalyzed Oxidative Coupling of Methane. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2737-2746	3.8	16
132	Microwave-assisted in-situ elimination of primary tars over biochar: Low temperature behaviours and mechanistic insights. <i>Bioresource Technology</i> , 2018 , 267, 333-340	11	16
131	A facile solvent-free route to synthesize ordered mesoporous carbons. <i>RSC Advances</i> , 2014 , 4, 32113-32116	3.16	16
130	Esterification of Salicylic Acid with Dimethyl Carbonate over Mesoporous Aluminosilicate. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 3685-3691	3.9	16
129	Kinetics studies of dimethyl carbonate synthesis from urea and methanol over ZnO catalyst. <i>Korean Journal of Chemical Engineering</i> , 2010 , 27, 1744-1749	2.8	16
128	Synthesis and characterization of ultralong lanthanum hydroxide nanorods via solvothermal method. <i>Journal of Materials Science</i> , 2007 , 42, 1397-1400	4.3	16
127	Tuning chemical environment and synergistic relay reaction to promote higher alcohols synthesis via syngas conversion. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119840	21.8	16
126	Morphology-Controlled Synthesis of H-type MFI Zeolites with Unique Stacked Structures through a One-Pot Solvent-Free Strategy. <i>ChemSusChem</i> , 2019 , 12, 3871-3877	8.3	15

125	Process intensification of honeycomb fractal micro-reactor for the direct production of lower olefins from syngas. <i>Chemical Engineering Journal</i> , 2018 , 351, 12-21	14.7	15
124	Solvent-free oxidation of alcohols by hydrogen peroxide over chromium Schiff base complexes immobilized on MCM-41. <i>Transition Metal Chemistry</i> , 2010 , 35, 213-220	2.1	15
123	Preparation and Catalytic Performance of Mesoporous Aluminosilicate Nano-particles with Wormhole-Like Framework Structure. <i>Catalysis Letters</i> , 2004 , 93, 225-229	2.8	15
122	Evoked Methane Photocatalytic Conversion to C2 Oxygenates over Ceria with Oxygen Vacancy. <i>Catalysts</i> , 2020 , 10, 196	4	15
121	A novel CuMn/CaZr catalyst for the synthesis of methyl formate from syngas. <i>RSC Advances</i> , 2015 , 5, 67630-67637	3.7	14
120	Self-regeneration of ferrites incorporated into matched matrices for thermochemical CO2 splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5026-5031	13	14
119	Synthesis of amine-modified mesoporous materials for CO2 capture by a one-pot template-free method. <i>Journal of Sol-Gel Science and Technology</i> , 2013 , 66, 353-362	2.3	14
118	Precisely tailoring dendritic Fe2O3 structures along [100] directions. <i>CrystEngComm</i> , 2012 , 14, 4074	3.3	14
117	Carbon modified FeMn catalyst for the synthesis of light olefins from CO hydrogenation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011 , 102, 437-445	1.6	14
116	The One-Step Oxidation of Methanol to Dimethoxymethane over Nanostructure Vanadium-Based Catalysts. <i>Catalysis Letters</i> , 2010 , 135, 48-56	2.8	14
115	Synthesis of Higher Alcohols from Syngas over Fe/K/Mo2C Catalyst. <i>Catalysis Letters</i> , 2010 , 136, 9-13	2.8	14
114	Polyvinylpyrrolidone/ZrO2-based sol-gel films applied in highly reflective mirrors for inertial confinement fusion. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 47, 173-181	2.3	14
113	Catalytic Mechanisms of Methanol Oxidation to Methyl Formate on Vanadia/Titania and Vanadia/Titania/Sulfate Catalysts. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 29290-29301	3.8	14
112	Cobalt Carbide Nanocatalysts for Efficient Syngas Conversion to Value-Added Chemicals with High Selectivity. <i>Accounts of Chemical Research</i> , 2021 , 54, 1961-1971	24.3	14
111	Dually confined Ni nanoparticles by room-temperature degradation of AlN for dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 118921	21.8	13
110	Gamma-Ray Irradiation to Accelerate Crystallization of Mesoporous Zeolites. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11325-11329	16.4	13
109	Ultrasmall Au10 clusters anchored on pyramid-capped rectangular TiO2 for olefin oxidation. <i>Nano Research</i> , 2016 , 9, 1182-1192	10	13
108	Synthesis and characterization of a novel type of mixed matrix membrane: surface sieving membrane. <i>RSC Advances</i> , 2014 , 4, 10140	3.7	13

107	Tuning the Facet Proportion of Co ₂ C Nanoprisms for Fischer-Tropsch Synthesis to Olefins. <i>ChemCatChem</i> , 2020 , 12, 1630-1638	5.2	13
106	Tuning the interaction between Na and Co ₂ C to promote selective CO ₂ hydrogenation to ethanol. <i>Applied Catalysis B: Environmental</i> , 2021 , 293, 120207	21.8	13
105	Control of Co ₀ /Co ₂ C dual active sites for higher alcohols synthesis from syngas. <i>Applied Catalysis A: General</i> , 2020 , 602, 117704	5.1	12
104	Effects of alkali metal promoters on the structure-performance relationship of CoMn catalysts for Fischer-Tropsch synthesis. <i>Catalysis Science and Technology</i> , 2020 , 10, 1816-1826	5.5	12
103	Potassium Tethered Carbons with Unparalleled Adsorption Capacity and Selectivity for Low-Cost Carbon Dioxide Capture from Flue Gas. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3495-3505	9.5	12
102	Characterization of Co-Cultivation of Cyanobacteria on Growth, Productions of Polysaccharides and Extracellular Proteins, Nitrogenase Activity, and Photosynthetic Activity. <i>Applied Biochemistry and Biotechnology</i> , 2017 , 181, 340-349	3.2	12
101	Design of a carbon-resistant Ni@S-2 reforming catalyst: Controllable Ni nanoparticles sandwiched in a peasecod-like structure. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119546	21.8	12
100	A highly active and stable Pd/MoC catalyst for hydrogen production from methanol decomposition. <i>Applied Catalysis B: Environmental</i> , 2021 , 299, 120648	21.8	12
99	Hydrothermal Preparation of Visible-Light-Driven N-Br-Codoped TiO ₂ Photocatalysts. <i>International Journal of Photoenergy</i> , 2008 , 2008, 1-7	2.1	11
98	Comparative study on the structural, acidic and catalytic properties of nano-sized and large-particulate mesoporous aluminosilicates. <i>Topics in Catalysis</i> , 2006 , 39, 227-235	2.3	11
97	Selective Oxidation of Methanol to Dimethoxymethane at Low Temperatures through Size-controlled V-TiO _x Nanoparticles. <i>ChemCatChem</i> , 2017 , 9, 1776-1781	5.2	10
96	Induced CO Electroreduction to Formic Acid on Metal-Organic Frameworks via Node Doping. <i>ChemSusChem</i> , 2020 , 13, 4035-4040	8.3	10
95	Hydrofunctionalization of olefins to value-added chemicals via photocatalytic coupling. <i>Green Chemistry</i> , 2018 , 20, 3450-3456	10	10
94	Mechanism of Microwave-Assisted Pyrolysis of Glucose to Furfural Revealed by Isotopic Tracer and Quantum Chemical Calculations. <i>ChemSusChem</i> , 2017 , 10, 3040-3043	8.3	10
93	Advances in Clean Fuel Ethanol Production from Electro-, Photo- and Photoelectro-Catalytic CO ₂ Reduction. <i>Catalysts</i> , 2020 , 10, 1287	4	10
92	Constructing Synergistic Zn-N ₄ and Fe-N ₄ O Dual-Sites from the COF@MOF Derived Hollow Carbon for Oxygen Reduction Reaction. <i>Small Structures</i> , 2022 , 3, 2100225	8.7	10
91	Facile Synthesis of Highly Coking-Resistant and Active Nickel-Based Catalyst for Low-Temperature CO ₂ Reforming of Methane. <i>Energy Technology</i> , 2019 , 7, 1900521	3.5	9
90	Gas-phase CO ₂ photoreduction via iron/ZSM-5 composites. <i>Applied Catalysis A: General</i> , 2020 , 595, 1175031	5.3	9

89	Effects of particle size on bifunctional Pt/SAPO-11 catalysts in the hydroisomerization of n-dodecane. <i>New Journal of Chemistry</i> , 2020 , 44, 2996-3003	3.6	9
88	Preparation and characterization of Silicalite-1/PDMS surface sieving pervaporation membrane for separation of ethanol/water mixture. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	9
87	Carbon dispersed iron-manganese catalyst for light olefin synthesis from CO hydrogenation. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 890-894	2.8	9
86	Methanol selective oxidation to dimethoxymethane on H3PMo12O40/SBA-15 supported catalysts. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 902-906	2.8	9
85	Effective and Green Synthesis of Methyl Pyrrole-1-carboxylate with Dimethyl Carbonate Over Solid Base. <i>Catalysis Letters</i> , 2008 , 120, 299-302	2.8	9
84	Fischer-Tropsch to olefins over CoMn-based catalysts: Effect of preparation methods. <i>Applied Catalysis A: General</i> , 2020 , 592, 117414	5.1	9
83	Enhanced Hydroformylation in a Continuous Flow Microreactor System. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 88-98	3.9	9
82	Ru single atoms for efficient chemoselective hydrogenation of nitrobenzene to azoxybenzene. <i>Green Chemistry</i> , 2021 , 23, 4753-4761	10	9
81	Facile Solvent-free Synthesis of Hollow Fiber Catalyst Assembled by c-axis Oriented ZSM-5 Crystals. <i>ChemCatChem</i> , 2018 , 10, 5619-5626	5.2	9
80	A DFT-based microkinetic study on methanol synthesis from CO hydrogenation over the InO catalyst. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 1888-1895	3.6	9
79	Syngas Conversion to Aromatics over the Co2C-Based Catalyst and HZSM-5 via a Tandem System. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4419-4427	3.9	8
78	Solvent-Free Synthesis of Mg-Incorporated Nanocrystalline SAPO-34 Zeolites via Natural Clay for Chloromethane-to-Olefin Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4185-4193	8.3	8
77	First principles studies on the selectivity of dimethoxymethane and methyl formate in methanol oxidation over VO/TiO-based catalysts. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 19393-19406	3.6	8
76	Structure-Dependent Selective Hydrogenation of α -Unsaturated Aldehydes over Platinum Nanocrystals Decorated with Nickel. <i>ChemPlusChem</i> , 2014 , 79, 1258-1262	2.8	8
75	Quantitative Conversion of Methanol to Methyl Formate on Graphene-Confined Nano-Oxides. <i>IScience</i> , 2020 , 23, 101157	6.1	8
74	Enhancing low pressure CO2 adsorption of solvent-free derived mesoporous carbon by highly dispersed potassium species. <i>RSC Advances</i> , 2016 , 6, 33580-33588	3.7	8
73	Valerolactone-introduced controlled-isomerization of glucose for lactic acid production over an Sn-Beta catalyst. <i>Green Chemistry</i> , 2021 , 23, 2634-2639	10	8
72	Direct Conversion of Syngas to Higher Alcohols over Multifunctional Catalyst: The Role of Copper-Based Component and Catalytic Mechanism. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6137-6146	2.8	8

71	Oxygenates from the Electrochemical Reduction of Carbon Dioxide. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 1992	4.5	8
70	Atmospheric pressure synthesis of nano-scale SAPO-34 catalysts for effective conversion of methanol to light olefins. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 3101-3108	5.8	7
69	Direct production of olefins syngas conversion over CoC-based catalyst in slurry bed reactor.. <i>RSC Advances</i> , 2019 , 9, 4131-4139	3.7	7
68	Efficient one-pot valorization of ethanol to 1-butanol over an earth-abundant NiMgO catalyst under mild conditions. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1612-1615	5.8	7
67	Bimodal Mesoporous Carbon-Coated MgO Nanoparticles for CO ₂ Capture at Moderate Temperature Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7880-7887	3.9	7
66	Postsynthesis of mesoporous ZSM-5 zeolites with TPAOH-assisted desilication and determination of activity performance in N ₂ O decomposition. <i>Journal of Porous Materials</i> , 2017 , 24, 759-767	2.4	7
65	Exposure of (001) planes and (011) planes in MFI zeolite. <i>CrystEngComm</i> , 2013 , 15, 3521	3.3	7
64	Hydrophobic mesoporous silica applied in GC separation of hexene isomers. <i>Journal of Sol-Gel Science and Technology</i> , 2010 , 56, 93-98	2.3	7
63	Reaction of zinc oxide with urea and its role in urea methanolysis. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2010 , 99, 381	1.6	7
62	A new study on the kinetics of StBer synthesis by in-situ liquid ²⁹ Si NMR. <i>Journal of Sol-Gel Science and Technology</i> , 2007 , 42, 13-20	2.3	7
61	Size-controllable barium titanate nanopowder synthesized via one-pot solvothermal route in a mixed solvent. <i>Journal of Electroceramics</i> , 2006 , 16, 127-133	1.5	7
60	Catalytic conversion of glucose into alkanediols over nickel-based catalysts: a mechanism study. <i>RSC Advances</i> , 2016 , 6, 62747-62753	3.7	7
59	Effective Macroporous CoreShell Structure of Alumina-Supported Spinel Ferrite for Carbon Dioxide Splitting Based on Chemical Looping. <i>Energy Technology</i> , 2016 , 4, 1349-1357	3.5	7
58	Porosity at the interface of organic matter and mineral components contribute significantly to gas adsorption on shales. <i>Journal of CO₂ Utilization</i> , 2018 , 28, 73-82	7.6	7
57	The shape evolution from Pt _x Co _y @Co cubes to Pt _x Co _y multicubes for selective hydrogenation of α -unsaturated aldehyde. <i>Nanoscale</i> , 2016 , 8, 6451-5	7.7	6
56	Dual-Role Membrane as NH ₃ Permselective Reactor and Azeotrope Separator in Urea Alcoholysis. <i>ACS Central Science</i> , 2019 , 5, 1834-1843	16.8	6
55	Incorporation of Highly Dispersed Cobalt Nanoparticles into the Ordered Mesoporous Carbon for CO Hydrogenation. <i>Catalysis Letters</i> , 2014 , 144, 133-141	2.8	6
54	Fluorine-Modified Mesoporous NiMgAl Mixed Oxides for Partial Oxidation of Methane. <i>Catalysis Letters</i> , 2010 , 135, 321-329	2.8	6

53	SYNTHESIS AND CHARACTERIZATION OF POLY(BUTYL ACRYLATE-CO-METHYL METHACRYLATE)/CLAY NANOCOMPOSITES VIA EMULSION POLYMERIZATION. <i>International Journal of Nanoscience</i> , 2006 , 05, 291-297	0.6	6
52	Determination of specific surfaces of silica xerogets by SAXS. <i>Science Bulletin</i> , 2000 , 45, 1386-1390		6
51	Research Progress on the Photocatalytic Conversion of Methane and Methanol. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2019 , 35, 923-939	3.8	6
50	Copper hollow fiber electrode for efficient CO ₂ electroreduction. <i>Journal of Power Sources</i> , 2021 , 495, 229814	8.9	6
49	IrFe/ZSM-5 Synergistic Catalyst for Selective Oxidation of Methane to Formic Acid. <i>Energy & Fuels</i> , 2021 , 35, 4418-4427	4.1	6
48	Direct Production of Higher Oxygenates by Syngas Conversion over a Multifunctional Catalyst. <i>Angewandte Chemie</i> , 2019 , 131, 4675-4679	3.6	5
47	Complete Formaldehyde Removal over 3D Structured Na _{1.1} Mn ₄ O ₈ @Mn ₅ O ₈ Biphasic-Crystals. <i>ChemCatChem</i> , 2020 , 12, 3512-3522	5.2	5
46	Photocatalytic Coupling of Methanol and Formaldehyde into Ethylene Glycol with High Atomic Efficiency. <i>Catalysis Letters</i> , 2018 , 148, 2274-2282	2.8	5
45	Gamma-Ray Irradiation to Accelerate Crystallization of Mesoporous Zeolites. <i>Angewandte Chemie</i> , 2020 , 132, 11421-11425	3.6	4
44	Effect of cobalt introduction order over Co/SiO ₂ sol-gel catalysts for Fischer-Tropsch synthesis. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2012 , 106, 217-224	1.6	4
43	Influence of pore regularity on Fischer-Tropsch synthesis with Co/SiO ₂ Catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2011 , 102, 155-164	1.6	4
42	Textural Structure of Co-based Catalysts and their Performance for Fischer-Tropsch Synthesis. <i>Catalysis Letters</i> , 2010 , 140, 127-133	2.8	4
41	Direct synthesis of mesoporous organosilica from sodium silicate and organotrialkoxysilane. <i>Journal of Materials Science Letters</i> , 2003 , 22, 1229-1231		4
40	Methanol Steam Reforming over ZnPt/MoC Catalysts: Effects of Hydrogen Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 18756-18770	3.9	4
39	Theoretical Insights into Morphologies of Alkali-Promoted Cobalt Carbide Catalysts for Fischer-Tropsch Synthesis. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6061-6072	3.8	4
38	Stable Trimetallic NiFeCu Catalysts with High Carbon Resistance for Dry Reforming of Methane. <i>ChemPlusChem</i> , 2020 , 85, 1120-1128	2.8	4
37	Chemo- and regioselective hydroformylation of alkenes with CO ₂ /H ₂ over a bifunctional catalyst. <i>Green Chemistry</i> , 2021 ,	10	4
36	Hydrofunctionalization of Olefins to Higher Aliphatic Alcohols via Visible-Light Photocatalytic Coupling. <i>Catalysis Letters</i> , 2019 , 149, 1651-1659	2.8	3

35	Differences in the Nature of Reaction Process for Thermochemical CO ₂ Splitting over NiFe ₂ O ₄ -Based Materials. <i>Energy Technology</i> , 2019 , 7, 1800523	3.5	3
34	Influence of Support Preparation Methods on Structure and Catalytic Activity of Co/TiO ₂ -SiO ₂ for Fischer-Tropsch Synthesis. <i>Catalysis Letters</i> , 2009 , 133, 341-345	2.8	3
33	Cobalt loss from Co-ZrO ₂ catalyst for Fischer-Tropsch synthesis in continuously stirred tank reactor. <i>Reaction Kinetics and Catalysis Letters</i> , 2008 , 93, 351-358		3
32	Highly moisture-proof polysilsesquioxane coating prepared via facile sol-gel process 2006 , 3, 127-131		3
31	IN SITU ASSEMBLY OF ZnS NANOFIBERS WITH HIGHLY ORDERED LAMELLAR MESOSTRUCTURE. <i>International Journal of Nanoscience</i> , 2006 , 05, 245-251	0.6	3
30	Efficient and Stable Co/EMo ₂ C Catalyst for Hydroformylation. <i>ACS Catalysis</i> , 2021 , 11, 14319-14327	13.1	3
29	The direct synthesis of a bio-lubricant by the oligomerization of methyl linoleate via castor oil. <i>Green Chemistry</i> , 2019 , 21, 6658-6666	10	3
28	Enhanced activity of Mg-Fe-O ferrites for two-step thermochemical CO ₂ splitting. <i>Journal of CO₂ Utilization</i> , 2018 , 26, 544-551	7.6	3
27	Direct conversion of CO to a jet fuel over CoFe alloy catalysts. <i>Innovation(China)</i> , 2021 , 2, 100170	17.8	3
26	CO ₂ Hydrogenation to Methanol over PdZnZr Solid Solution: Effects of the PdZn Alloy and Oxygen Vacancy. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9258-9266	6.1	3
25	Non-equilibrium model for catalytic distillation process. <i>Frontiers of Chemical Engineering in China</i> , 2008 , 2, 379-384		2
24	Catalytic Behavior of Calcium Oxide for Synthesis of Dimethyl Carbonate from Propylene Carbonate and Methanol Near Room Temperature. <i>ACS Symposium Series</i> , 2003 , 138-158	0.4	2
23	Additional Incorporation of Aluminum into Al-Containing Mesoporous Structure via Hydrothermal Treatment with NaAlO ₂ Solution. <i>Journal of Porous Materials</i> , 2005 , 12, 107-112	2.4	2
22	Ultralow Rh Bimetallic Catalysts with High Catalytic Activity for the Hydrogenation of N-Ethylcarbazole. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5260-5267	8.3	2
21	Hierarchical ZSM-5 Supported CoMn Catalyst for the Production of Middle Distillate from Syngas. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 5783-5791	3.9	2
20	Cobalt-based ferrites as efficient redox materials for thermochemical two-step CO ₂ -splitting: enhanced performance due to cation diffusion. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 975-984	5.8	2
19	Toward a Full One-Pass Conversion for the Fischer-Tropsch Synthesis over a Highly Selective Cobalt Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8195-8201	3.9	2
18	Preparation of Highly Dispersed CuO/MCM-41 Catalysts for CO Hydrogenation. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 3218-3222	1.3	1

17	Tuning of active sites in M/TiO ₂ for photocatalytic cyanation of olefins with high regioselectivity. <i>Applied Catalysis A: General</i> , 2020 , 604, 117787	5.1	1
16	3 D Imaging and Structural Analysis of a Mesoporous-Silica-Body-Supported Eggshell Cobalt Catalyst for Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2016 , 8, 2920-2929	5.2	1
15	Solvent-Free Synthesis of c-Axis Oriented ZSM-5 Crystals with Enhanced Methanol to Gasoline Catalytic Activity. <i>ChemCatChem</i> , 2016 , 8, 3305-3305	5.2	1
14	Characterization, activity and selectivity of ethylenediamine modified Co/SiO ₂ FT catalyst prepared by sol-gel method. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 850-855	2.8	1
13	Effects of lanthanum on the properties of bifunctional Ni/HY catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , 2002 , 76, 353-360		1
12	ZrO ₂ -SiO ₂ Coatings for Wavelength-Selective Reflection Filter. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 497-500		1
11	Selective Production of Linear Aldehydes and Alcohols from Alkenes using Formic Acid as Syngas Surrogate. <i>Chemistry - A European Journal</i> , 2021 , 27, 9919-9924	4.8	1
10	Novel Cobalt Carbide Catalyst Wall-Coating Method for FeCrAlloy Microchannels Exemplified on Direct Production of Lower Olefins from Syngas. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22967-22976	3.9	1
9	Investigating the Effect of the Initial Valence States of Copper on CO ₂ Electroreduction. <i>ChemElectroChem</i> , 2021 , 8, 3366-3370	4.3	1
8	Solar driven efficient direct conversion of methane to multicarbon oxygenates. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7856-7868	13	1
7	Investigation of Atom-Level Reaction Kinetics of Carbon-Resistant Bimetallic NiCo-Reforming Catalysts: Combining Microkinetic Modeling and Density Functional Theory. <i>ACS Catalysis</i> , 4382-4393	13.1	1
6	Enhanced hydroformylation of 1-hexene in microbubble media. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020 , 15, e2484	1.3	0
5	Enhanced Carrier Spatial Separation and Interfacial Transfer for Photocatalytic Cyanation of Olefins. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 831-837	8.3	0
4	Insight into Composition and Intermediate Evolutions of Copper-Based Catalysts during Gas-Phase CO ₂ Electroreduction to Multicarbon Oxygenates. <i>Catalysts</i> , 2021 , 11, 1502	4	0
3	3 D Imaging and Structural Analysis of a Mesoporous-Silica-Body-Supported Eggshell Cobalt Catalyst for Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2016 , 8, 2860-2860	5.2	
2	Toughening of Polycarbonate with Organic-Inorganic Hybrid Materials. <i>Polymers and Polymer Composites</i> , 2006 , 14, 291-300	0.8	
1	Study of the reactivity of radical-molecular addition reaction using density functional theory. <i>Science Bulletin</i> , 2001 , 46, 480-482		