

# Sheng-Gang Li

## List of Publications by Year in Descending Order

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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.

184 papers	6,163 citations	35 h-index	74 g-index
195 ext. papers	7,876 ext. citations	7.1 avg, IF	6.13 L-index

#	Paper	IF	Citations
184	Theoretical insight into the interaction between hydrogen and Hg carbide (Fe <sub>5</sub> C <sub>2</sub> ) surfaces. <i>Applied Surface Science</i> , <b>2022</b> , 583, 152538	6.7	0
183	Bifunctional catalysts with versatile zeolites enable unprecedented para-xylene productivity for syngas conversion under mild conditions. <i>Chem Catalysis</i> , <b>2022</b> ,		3
182	Oxidative Coupling of Methane: Examining the Inactivity of the MnO <sub>2</sub> -Na <sub>2</sub> WO <sub>4</sub> /SiO <sub>2</sub> Catalyst at Low Temperature.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> , e202117201	16.4	2
181	Visualization of on-surface ethylene polymerization through ethylene insertion.. <i>Science</i> , <b>2022</b> , 375, 1188-1191	35.1	2
180	Revealing the different performance of LiSiO <sub>3</sub> and CaSiO <sub>3</sub> for CO adsorption by density functional theory.. <i>RSC Advances</i> , <b>2022</b> , 12, 11190-11201	3.7	0
179	C2 weakens the turnover frequency during the melting of Fe <sub>3</sub> Cy: insights from reactive MD simulations. <i>New Journal of Chemistry</i> , <b>2021</b> , 46, 282-293	3.6	
178	Mechanistic studies toward the rational design of oxide catalysts for carbon dioxide hydrogenation. <i>Annual Reports in Computational Chemistry</i> , <b>2021</b> , 17, 211-270	1.8	
177	Single-atom Ru catalyst for selective synthesis of 3-pentanone via ethylene hydroformylation. <i>Green Chemistry</i> , <b>2021</b> , 23, 9038-9047	10	2
176	Simple mechanisms of CH <sub>4</sub> reforming with CO and H <sub>2</sub> O on a supported Ni/ZrO <sub>2</sub> catalyst. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 26392-26400	3.6	0
175	Nonoxidative Conversion of Methane, Ethane, and Ethylene on Flat Ir(111) and Stepped Ir(211) Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 5602-5615	3.8	1
174	Theoretical Insights into Morphologies of Alkali-Promoted Cobalt Carbide Catalysts for Fischer-Tropsch Synthesis. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 6061-6072	3.8	4
173	On the Role of Sn Segregation of Pt-Sn Catalysts for Propane Dehydrogenation. <i>ACS Catalysis</i> , <b>2021</b> , 11, 4401-4410	13.1	16
172	Understanding lanthanum oxide surface structure by DFT simulation of oxygen 1s calibrated binding energy in XPS after in situ treatment. <i>Applied Surface Science</i> , <b>2021</b> , 548, 149214	6.7	6
171	An Temperature-Dependent Study of LaO <sub>x</sub> Reactivation Process. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 694559	5	0
170	ZnZrO <sub>x</sub> integrated with chain-like nanocrystal HZSM-5 as efficient catalysts for aromatics synthesis from CO <sub>2</sub> hydrogenation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 286, 119929	21.8	17
169	Understanding the structure-performance relationship of cubic In <sub>2</sub> O <sub>3</sub> catalysts for CO <sub>2</sub> hydrogenation. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2021</b> , 49, 101543	7.6	2
168	Reaction pathways and the role of the carbonates during CO <sub>2</sub> hydrogenation over hexagonal In <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Surface Science</i> , <b>2021</b> , 542, 148591	6.7	6

167	Microwave-assisted low-temperature biomass pyrolysis: from mechanistic insights to pilot scale. <i>Green Chemistry</i> , <b>2021</b> , 23, 821-827	10	2
166	Conversion of glucose to levulinic acid and upgradation to $\gamma$ -Valerolactone on Ru/TiO <sub>2</sub> catalysts. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 14406-14413	3.6	2
165	Catalytic cycle of the partial oxidation of methane to methanol over Cu-ZSM-5 revealed using DFT calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 4963-4974	3.6	8
164	$\gamma$ -Valerolactone-introduced controlled-isomerization of glucose for lactic acid production over an Sn-Beta catalyst. <i>Green Chemistry</i> , <b>2021</b> , 23, 2634-2639	10	8
163	Theoretical Perspectives on the Modulation of Carbon on Transition-Metal Catalysts for Conversion of Carbon-Containing Resources. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2156-2181	13.1	9
162	Glucose-Induced Monodisperse Iron Oxide/Graphene Oxide Catalysts for Efficient Fischer-Tropsch Synthesis. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 4428-4436	4.1	1
161	A novel approach for metal extraction from metal sulfide ores with NH <sub>4</sub> Cl: A combined DFT and experimental studies. <i>Separation and Purification Technology</i> , <b>2021</b> , 267, 118626	8.3	0
160	Mechanisms of Double-Bond Isomerization Reactions of n-Butene on Different Lewis Acids. <i>ACS Catalysis</i> , <b>2021</b> , 11, 11293-11304	13.1	3
159	The Facile Dissociation of Carbon-Oxygen Bonds in CO and CO on the Surface of LaCoSiH Intermetallic Compound. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 25538-25545	16.4	1
158	Direct conversion of CO to a jet fuel over CoFe alloy catalysts. <i>Innovation(China)</i> , <b>2021</b> , 2, 100170	17.8	3
157	Low-Temperature Hydrogenation of Toluene Using an Iron-Promoted Molybdenum Carbide Catalyst. <i>Catalysts</i> , <b>2021</b> , 11, 1079	4	
156	Active oxygen center in oxidative coupling of methane on La <sub>2</sub> O <sub>3</sub> catalyst. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 649-659	12	5
155	Insights into the oxidation mechanism of millerite exposed to O <sub>2</sub> and H <sub>2</sub> O using DFT study. <i>Computational and Theoretical Chemistry</i> , <b>2021</b> , 1205, 113435	2	
154	Effect of In <sub>2</sub> O <sub>3</sub> particle size on CO <sub>2</sub> hydrogenation to lower olefins over bifunctional catalysts. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 2038-2048	11.3	6
153	Oxygen Adsorption-Induced Morphological Evolution of High Iron Carbide at High Oxygen Chemical Potentials. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 3055-3065	3.8	1
152	A DFT-based microkinetic study on methanol synthesis from CO hydrogenation over the InO catalyst. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 1888-1895	3.6	9
151	Catalyst Design for Selective Hydrodeoxygenation of Glycerol to 1,3-Propanediol. <i>ACS Catalysis</i> , <b>2020</b> , 10, 15217-15226	13.1	17
150	Continuous Conversion of Glucose into Methyl Lactate over the Sn-Beta Zeolite: Catalytic Performance and Activity Insight. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 17365-17372	3.9	7

- 149 Mesoporous Iron Oxide Nanoparticle-Decorated Graphene Oxide Catalysts for Fischer-Tropsch Synthesis. *ACS Applied Nano Materials*, **2020**, 3, 7182-7191 5.6 13
- 148 Exploring direct and hydrogen-assisted CO activation on iridium surfaces: Surface dependent activity. *Catalysis Science and Technology*, **2020**, 10, 4424-4435 5.5 2
- 147 Rationally designed indium oxide catalysts for CO hydrogenation to methanol with high activity and selectivity. *Science Advances*, **2020**, 6, eaaz2060 14.3 84
- 146 Mechanism of selective and complete oxidation in La<sub>2</sub>O<sub>3</sub>-catalyzed oxidative coupling of methane. *Catalysis Science and Technology*, **2020**, 10, 2602-2614 5.5 14
- 145 Gamma-Ray Irradiation to Accelerate Crystallization of Mesoporous Zeolites. *Angewandte Chemie*, **2020**, 132, 11421-11425 3.6 4
- 144 Gamma-Ray Irradiation to Accelerate Crystallization of Mesoporous Zeolites. *Angewandte Chemie - International Edition*, **2020**, 59, 11325-11329 16.4 13
- 143 Efficient one-pot valorization of ethanol to 1-butanol over an earth-abundant Ni/MgO catalyst under mild conditions. *Sustainable Energy and Fuels*, **2020**, 4, 1612-1615 5.8 7
- 142 Fabrication of a core-shell MFI@TON material and its enhanced catalytic performance for toluene alkylation. *Catalysis Science and Technology*, **2020**, 10, 1281-1291 5.5 3
- 141 Solvent-Free Synthesis of Mg-Incorporated Nanocrystalline SAPO-34 Zeolites via Natural Clay for Chloromethane-to-Olefin Conversion. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 4185-4193 8.3 8
- 140 Mechanistic studies on millerite chlorination with ammonium chloride. *Physical Chemistry Chemical Physics*, **2020**, 22, 4832-4839 3.6 3
- 139 Electronic effects of transition metal dopants on Fe(100) and Fe<sub>5</sub>C<sub>2</sub>(100) surfaces for CO activation. *Catalysis Science and Technology*, **2020**, 10, 2047-2056 5.5 5
- 138 Mechanistic insights into higher alcohol synthesis from syngas on Rh/Cu single-atom alloy catalysts. *Physical Chemistry Chemical Physics*, **2020**, 22, 5070-5077 3.6 3
- 137 First principles investigation of dissociative adsorption of H during CO hydrogenation over cubic and hexagonal InO catalysts. *Physical Chemistry Chemical Physics*, **2020**, 22, 3390-3399 3.6 14
- 136 The role of oxophilic Mo species in Pt/MgO catalysts as extremely active sites for enhanced hydrodeoxygenation of dibenzofuran. *Catalysis Science and Technology*, **2020**, 10, 2948-2960 5.5 9
- 135 Hydrodeoxygenation of anisole to benzene over an Fe<sub>2</sub>P catalyst by a direct deoxygenation pathway. *Catalysis Science and Technology*, **2020**, 10, 3015-3023 5.5 10
- 134 Surface structure and morphology evolution of iron borides under dynamic conditions: A theoretical study. *Applied Surface Science*, **2020**, 525, 146462 6.7 6
- 133 Insights into the High Activity and Methanol Selectivity of the Zn/ZrO<sub>2</sub> Solid Solution Catalyst for CO<sub>2</sub> Hydrogenation. *Journal of Physical Chemistry C*, **2020**, 124, 27467-27478 3.8 3
- 132 Fischer-Tropsch to olefins over Co/Mn-based catalysts: Effect of preparation methods. *Applied Catalysis A: General*, **2020**, 592, 117414 5.1 9

131	Enhanced Ethanol Production from CO Electroreduction at Micropores in Nitrogen-Doped Mesoporous Carbon. <i>ChemSusChem</i> , <b>2020</b> , 13, 293-297	8.3	30
130	Mechanistic Aspects of CO Activation and C≡ Bond Formation on the Fe/C- and Fe-Terminated Fe3C(010) Surfaces. <i>ACS Catalysis</i> , <b>2020</b> , 10, 877-890	13.1	9
129	Solving Chemistry Problems via an End-to-End Approach: A Proof of Concept. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 8866-8873	2.8	5
128	Synthesis of S-doped AuPbPt alloy nanowire-networks as superior catalysts towards the ORR and HER. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23906-23918	13	10
127	Highly efficient production of lactic acid from xylose using Sn-beta catalysts. <i>Green Chemistry</i> , <b>2020</b> , 22, 7333-7336	10	20
126	Quantitative Conversion of Methanol to Methyl Formate on Graphene-Confined Nano-Oxides. <i>IScience</i> , <b>2020</b> , 23, 101157	6.1	8
125	Synthesis of large gold nanoparticles with deformation twinnings by one-step seeded growth with Cu(ii)-mediated Ostwald ripening for determining nitrile and isonitrile groups. <i>Nanoscale</i> , <b>2020</b> , 12, 16934-16943	7.7	23
124	Cu single-atoms embedded in porous carbon nitride for selective oxidation of methane to oxygenates. <i>Chemical Communications</i> , <b>2020</b> , 56, 14677-14680	5.8	13
123	Theoretical Insights into the Structure and Activity of Cobalt Modulated by Surface and Subsurface Carbon in Operando Conditions. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 18576-18586	3.8	2
122	Electronic Structure and Oxidation Mechanism of Nickel-Copper Converter Matte from First-Principles Calculations. <i>ACS Omega</i> , <b>2020</b> , 5, 20090-20099	3.9	7
121	Crystal Structure Prediction Approach to Explore the Iron Carbide Phases: Novel Crystal Structures and Unexpected Magnetic Properties. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 17244-17254	3.8	4
120	Controlled chelation between tannic acid and Fe precursors to obtain N, S co-doped carbon with high density Fe-single atom-nanoclusters for highly efficient oxygen reduction reaction in Zn  air batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17136-17149	13	23
119	Novel Heterogeneous Catalysts for CO Hydrogenation to Liquid Fuels. <i>ACS Central Science</i> , <b>2020</b> , 6, 1657-1670	16.7	52
118	Toward a Full One-Pass Conversion for the Fischer-Tropsch Synthesis over a Highly Selective Cobalt Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 8195-8201	3.9	2
117	Investigation of the effects of phosphorus on the selective hydrodeoxygenation of anisole over an Fe/SiO2 catalyst. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 5712-5724	5.5	16
116	Fischer-Tropsch Synthesis to Olefins: Catalytic Performance and Structure Evolution of Co2C-Based Catalysts under a CO2 Environment. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9554-9567	13.1	42
115	Direct Production of Higher Oxygenates by Syngas Conversion over a Multifunctional Catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4627-4631	16.4	47
114	Carbon Permeation: The Prerequisite Elementary Step in Iron-Catalyzed Fischer-Tropsch Synthesis. <i>Catalysis Letters</i> , <b>2019</b> , 149, 645-664	2.8	13

113	Direct Production of Higher Oxygenates by Syngas Conversion over a Multifunctional Catalyst. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 4675-4679	3.6	5
112	Progress in coal chemical technologies of China. <i>Reviews in Chemical Engineering</i> , <b>2019</b> , 36, 21-66	5	17
111	Modeling of Gas Solubility in Hydrocarbons Using the Perturbed-Chain Statistical Associating Fluid Theory Equation of State. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 12347-12360	3.9	6
110	Insights into oil recovery, soil rehabilitation and low temperature behaviors of microwave-assisted petroleum-contaminated soil remediation. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 377, 341-348	12.8	24
109	Selective Transformation of CO and H into Lower Olefins over In O -ZnZrO /SAPO-34 Bifunctional Catalysts. <i>ChemSusChem</i> , <b>2019</b> , 12, 3582-3591	8.3	56
108	Application of the Perturbed-Chain SAFT to Phase Equilibria in the Fischer-Tropsch Synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 8387-8400	3.9	6
107	Exploration of Properties from Both the Bulk and Surface of Iron Silicides: A Unified Theoretical Study. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 11939-11949	3.8	3
106	Efficient production of lactic acid from sugars over Sn-Beta zeolite in water: catalytic performance and mechanistic insights. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 1163-1171	5.8	24
105	Selective Production of Aromatics Directly from Carbon Dioxide Hydrogenation. <i>ACS Catalysis</i> , <b>2019</b> , 9, 3866-3876	13.1	89
104	Morphology and Reactivity Evolution of HCP and FCC Ru Nanoparticles under CO Atmosphere. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2768-2776	13.1	23
103	CO Self-Promoting Hydrogenation on CO-Saturated Ru(0001): A New Theoretical Insight into How H <sub>2</sub> Participates in CO Activation. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 6508-6515	3.8	4
102	Highly Dispersed Single-Atom Pt and Pt Clusters in the Fe-Modified KL Zeolite with Enhanced Selectivity for n-Heptane Aromatization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29858-29867	9.5	21
101	The on-and-off dynamics of thiophene on a nickel cluster enables efficient hydrodesulfurization and excellent stability at high temperatures. <i>Nanoscale</i> , <b>2019</b> , 11, 4369-4375	7.7	2
100	Mechanism of oxide-catalyzed selective oxidation: A computational perspective. <i>Annual Reports in Computational Chemistry</i> , <b>2019</b> , 15, 287-333	1.8	2
99	Propagating DFT Uncertainty to Mechanism Determination, Degree of Rate Control, and Coverage Analysis: The Kinetics of Dry Reforming of Methane. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 30389-30397	3.8	23
98	Understanding of binding energy calibration in XPS of lanthanum oxide by in situ treatment. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 22351-22358	3.6	67
97	Sulfation Roasting of Nickel Oxide-Sulfide Mixed Ore Concentrate in the Presence of Ammonium Sulfate: Experimental and DFT Studies. <i>Metals</i> , <b>2019</b> , 9, 1256	2.3	9
96	The direct synthesis of a bio-lubricant by the oligomerization of methyl linoleate via castor oil. <i>Green Chemistry</i> , <b>2019</b> , 21, 6658-6666	10	3



95	Particle Size Effects of Cobalt Carbide for Fischer-Tropsch to Olefins. <i>ACS Catalysis</i> , <b>2019</b> , 9, 798-809	13.1	22
94	Relationship between Iron Carbide Phases ( $\gamma$ -Fe <sub>2</sub> C, Fe <sub>7</sub> C <sub>3</sub> , and $\epsilon$ -Fe <sub>5</sub> C <sub>2</sub> ) and Catalytic Performances of Fe/SiO <sub>2</sub> Fischer-Tropsch Catalysts. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3304-3316	13.1	116
93	Synthesis of nano-sized LTL zeolite by addition of a Ba precursor with superior n-octane aromatization performance. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 2860-2869	5.5	5
92	Guest-regulated chirality switching of planar chiral pseudo[1]catenanes. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 2028-2032	3.9	20
91	Stable High-Index Faceted Pt Skin on Zigzag-Like PtFe Nanowires Enhances Oxygen Reduction Catalysis. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705515	24	223
90	Potassium Tethered Carbons with Unparalleled Adsorption Capacity and Selectivity for Low-Cost Carbon Dioxide Capture from Flue Gas. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3495-3505	9.5	12
89	Enhanced Fischer-Tropsch performances of graphene oxide-supported iron catalysts via argon pretreatment. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 1113-1125	5.5	29
88	Precursor controlled synthesis of graphene oxide supported iron catalysts for Fischer-Tropsch synthesis. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 2883-2893	5.5	16
87	Energy dispersive spectrometry and first principles studies on the oxidation of pentlandite. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 12791-12798	3.6	7
86	Rational Design of Hydrogen-Donor Solvents for Direct Coal Liquefaction. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 4715-4723	4.1	17
85	Investigation of CO oxidation over Au/TiO <sub>2</sub> catalyst through detailed temperature programmed desorption study under low temperature and Operando conditions. <i>Catalysis Today</i> , <b>2018</b> , 307, 84-92	5.3	11
84	Oxidation mechanism of chalcopyrite revealed by X-ray photoelectron spectroscopy and first principles studies. <i>Applied Surface Science</i> , <b>2018</b> , 427, 233-241	6.7	30
83	Recent advances in the investigation of nanoeffects of Fischer-Tropsch catalysts. <i>Catalysis Today</i> , <b>2018</b> , 311, 8-22	5.3	61
82	Hydrofunctionalization of olefins to value-added chemicals via photocatalytic coupling. <i>Green Chemistry</i> , <b>2018</b> , 20, 3450-3456	10	10
81	Photocatalytic Coupling of Methanol and Formaldehyde into Ethylene Glycol with High Atomic Efficiency. <i>Catalysis Letters</i> , <b>2018</b> , 148, 2274-2282	2.8	5
80	Role of zirconium in direct CO <sub>2</sub> hydrogenation to lower olefins on oxide/zeolite bifunctional catalysts. <i>Journal of Catalysis</i> , <b>2018</b> , 364, 382-393	7.3	96
79	CO Direct versus H-Assisted Dissociation on Hydrogen Coadsorbed $\epsilon$ -Fe <sub>5</sub> C <sub>2</sub> Fischer-Tropsch Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 20907-20917	3.8	9
78	Visible light-driven methanol dehydrogenation and conversion into 1,1-dimethoxymethane over a non-noble metal photocatalyst under acidic conditions. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 3372-3378	5.5	24

77	Formic Acid-Induced Controlled-Release Hydrolysis of Microalgae ( <i>Scenedesmus</i> ) to Lactic Acid over Sn-Beta Catalyst. <i>ChemSusChem</i> , <b>2018</b> , 11, 2492-2496	8.3	19
76	Direct Production of Lower Olefins from CO <sub>2</sub> Conversion via Bifunctional Catalysis. <i>ACS Catalysis</i> , <b>2018</b> , 8, 571-578	13.1	232
75	Developing ReaxFF to Visit CO Adsorption and Dissociation on Iron Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 27582-27589	3.8	11
74	Ultralow Pt Catalyst for Formaldehyde Removal: The Determinant Role of Support. <i>IScience</i> , <b>2018</b> , 9, 487-501	6.1	24
73	Computational Insights into Morphology and Interface of Zeolite Catalysts: a Case Study of K-LTL Zeolite with Different Si/Al Ratios. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 24843-24850	3.8	0
72	Online Kinetics Study of Oxidative Coupling of Methane over La <sub>2</sub> O <sub>3</sub> for Methane Activation: What Is Behind the Distinguished Light-off Temperatures?. <i>ACS Catalysis</i> , <b>2018</b> , 8, 11761-11772	13.1	37
71	Grain Boundary Plays a Key Role in Carbon Diffusion in Carbon Irons Revealed by a ReaxFF Study. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 23191-23199	3.8	19
70	Morphology control of Co <sub>2</sub> C nanostructures via the reduction process for direct production of lower olefins from syngas. <i>Journal of Catalysis</i> , <b>2018</b> , 366, 289-299	7.3	32
69	Highly selective production of olefins from syngas with modified ASF distribution model. <i>Applied Catalysis A: General</i> , <b>2018</b> , 563, 146-153	5.1	16
68	Enhanced activity of Mg-Fe-O ferrites for two-step thermochemical CO <sub>2</sub> splitting. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2018</b> , 26, 544-551	7.6	3
67	In Situ XRD Study on Promotional Effect of Potassium on Carburization of Spray-dried Precipitated Fe <sub>2</sub> O <sub>3</sub> Catalysts. <i>ChemCatChem</i> , <b>2017</b> , 9, 1691-1700	5.2	23
66	Controllable deposition of Pt nanoparticles into a KL zeolite by atomic layer deposition for highly efficient reforming of n-heptane to aromatics. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 1342-1350	5.5	27
65	Effects of Sodium on the Catalytic Performance of CoMn Catalysts for Fischer-Tropsch to Olefin Reactions. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3622-3631	13.1	104
64	Direct conversion of CO into liquid fuels with high selectivity over a bifunctional catalyst. <i>Nature Chemistry</i> , <b>2017</b> , 9, 1019-1024	17.6	498
63	Mechanism of the Mn Promoter via CoMn Spinel for Morphology Control: Formation of Co <sub>2</sub> C Nanoprisms for Fischer-Tropsch to Olefins Reaction. <i>ACS Catalysis</i> , <b>2017</b> , 7, 8023-8032	13.1	46
62	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> , <b>2017</b> , 19, 19393-19406	3.6	8
61	First principles studies of CO and O chemisorption on LaO surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 26799-26811	3.6	14
60	Iron Carbides in Fischer-Tropsch Synthesis: Theoretical and Experimental Understanding in Epsilon-Iron Carbide Phase Assignment. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 21390-21396	3.8	32



59	Exclusive Formation of Formic Acid from CO <sub>2</sub> Electroreduction by a Tunable Pd-Sn Alloy. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 12387-12391	3.6	72
58	Exclusive Formation of Formic Acid from CO Electroreduction by a Tunable Pd-Sn Alloy. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 12219-12223	16.4	196
57	Metal-Free Nitrogen-Doped Mesoporous Carbon for Electroreduction of CO <sub>2</sub> to Ethanol. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 10980-10984	3.6	51
56	Metal-Free Nitrogen-Doped Mesoporous Carbon for Electroreduction of CO to Ethanol. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 10840-10844	16.4	214
55	Direct Transformation of Syngas to Aromatics over Na-Zn-Fe 5 C 2 and Hierarchical HZSM-5 Tandem Catalysts. <i>CheM</i> , <b>2017</b> , 3, 323-333	16.2	159
54	Formation of radicals in coal pyrolysis examined by electron spin resonance. <i>AIP Advances</i> , <b>2017</b> , 7, 095303	3.5	4
53	First principles prediction of CH reactivities with CoO nanocatalysts of different morphologies. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 30874-30882	3.6	8
52	Mechanism of Microwave-Assisted Pyrolysis of Glucose to Furfural Revealed by Isotopic Tracer and Quantum Chemical Calculations. <i>ChemSusChem</i> , <b>2017</b> , 10, 3040-3043	8.3	10
51	Alkalis in iron-based Fischer-Tropsch synthesis catalysts: distribution, migration and promotion. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 1472-1480	3.5	30
50	Efficient and sustainable transformation of gamma-valerolactone into nylon monomers. <i>Green Chemistry</i> , <b>2016</b> , 18, 691-694	10	21
49	Morphology control of K <sub>2</sub> O promoter on HfC carbide (Fe <sub>5</sub> C <sub>2</sub> ) under Fischer-Tropsch synthesis condition. <i>Catalysis Today</i> , <b>2016</b> , 261, 93-100	5.3	28
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47	Single-Molecule Imaging Reveals the Activation Dynamics of Intracellular Protein Smad3 on Cell Membrane. <i>Scientific Reports</i> , <b>2016</b> , 6, 33469	4.9	11
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44	Correlation between the acid-base properties of the La <sub>2</sub> O <sub>3</sub> catalyst and its methane reactivity. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 16509-17	3.6	32
43	HfC carbide surfaces induced Pt morphological changes: a theoretical insight. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 6726-6738	5.5	5
42	Theoretical study about Mo <sub>2</sub> C(101)-catalyzed hydrodeoxygenation of butyric acid to butane for biomass conversion. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 4923-4936	5.5	22

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