

Chao-he Yang

List of Publications by Year in descending order

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113
papers

2,562
citations

201674

27
h-index

289244

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114
all docs

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docs citations

114
times ranked

1925
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneously Enhanced Stability and Selectivity for Propene Epoxidation with H ₂ and O ₂ on Au Catalysts Supported on Nano-Crystalline Mesoporous TS-1. ACS Catalysis, 2017, 7, 2668-2675.	11.2	120
2	Catalytic Transfer Hydrogenation of Biomass-Derived Substrates to Value-Added Chemicals on Dual-Function Catalysts: Opportunities and Challenges. ChemSusChem, 2019, 12, 71-92.	6.8	109
3	Enhanced Catalytic Performance for Propene Epoxidation with H ₂ and O ₂ over Bimetallic Au-Ag/Uncalcined Titanium Silicate-1 Catalysts. ACS Catalysis, 2018, 8, 7799-7808.	11.2	94
4	Maximizing Propylene Yield by Two-Stage Riser Catalytic Cracking of Heavy Oil. Industrial & Engineering Chemistry Research, 2007, 46, 4914-4920.	3.7	77
5	Tailoring Facets of Mn ₂ O ₃ Microcrystalline Catalysts for Enhanced Selective Oxidation of Glycerol to Glycolic Acid. ACS Catalysis, 2021, 11, 6371-6383.	11.2	64
6	Reversing Titanium Oligomer Formation towards High-Efficiency and Green Synthesis of Titanium-Containing Molecular Sieves. Angewandte Chemie - International Edition, 2021, 60, 3443-3448.	13.8	58
7	Synergistic Pt/MgO/SBA-15 nanocatalysts for glycerol oxidation in base-free medium: Catalyst design and mechanistic study. Journal of Catalysis, 2019, 370, 434-446.	6.2	56
8	Synergistic effects of bimetallic PtRu/MCM-41 nanocatalysts for glycerol oxidation in base-free medium: Structure and electronic coupling dependent activity. Applied Catalysis B: Environmental, 2019, 259, 118070.	20.2	53
9	PO ₄ ³⁻ Coordinated Robust Single-Atom Platinum Catalyst for Selective Polyol Oxidation**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	51
10	Ni-Co oxide catalysts with lattice distortions for enhanced oxidation of glycerol to glyceric acid. Journal of Catalysis, 2020, 381, 248-260.	6.2	48
11	Enhanced stability for propene epoxidation with H ₂ and O ₂ over wormhole-like hierarchical TS-1 supported Au nanocatalyst. Chemical Engineering Journal, 2019, 377, 119954.	12.7	46
12	Manipulating Gold Spatial Location on Titanium Silicalite-1 To Enhance the Catalytic Performance for Direct Propene Epoxidation with H ₂ and O ₂ . ACS Catalysis, 2018, 8, 10649-10657.	11.2	44
13	Engineering Pt-Mn ₂ O ₃ interface to boost selective oxidation of ethylene glycol to glycolic acid. Applied Catalysis B: Environmental, 2021, 284, 119803.	20.2	40
14	Morphological insights into the catalytic aquathermolysis of crude oil with an easily prepared high-efficiency Fe ₃ O ₄ -containing catalyst. Fuel, 2019, 245, 420-428.	6.4	37
15	Bimetallic AuPt/TiO ₂ Catalysts for Direct Oxidation of Glucose and Gluconic Acid to Tartaric Acid in the Presence of Molecular O ₂ . ACS Catalysis, 2020, 10, 10932-10945.	11.2	37
16	Liquid-Phase Epoxidation of Light Olefins over W and Nb Nanocatalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 4423-4452.	6.7	36
17	Insights into the synergy between recyclable magnetic Fe ₃ O ₄ and zeolite for catalytic aquathermolysis of heavy crude oil. Applied Surface Science, 2018, 456, 140-146.	6.1	36
18	Study on the polarity, solubility, and stacking characteristics of asphaltenes. Fuel, 2014, 128, 366-372.	6.4	35

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19	Au/TS-1 catalyst for propene epoxidation with H ₂ /O ₂ : A novel strategy to enhance stability by tuning charging sequence. <i>AIChE Journal</i> , 2016, 62, 3963-3972.	3.6	35
20	Nature of active sites and deactivation mechanism for n-butane isomerization over alumina-promoted sulfated zirconia. <i>Journal of Catalysis</i> , 2016, 338, 124-134.	6.2	35
21	Cost-efficient core-shell TS-1/silicalite-1 supported Au catalysts: Towards enhanced stability for propene epoxidation with H ₂ and O ₂ . <i>Chemical Engineering Journal</i> , 2019, 377, 119927.	12.7	35
22	Produce petrochemicals directly from crude oil catalytic cracking, a techno-economic analysis and life cycle society-environment assessment. <i>Journal of Cleaner Production</i> , 2021, 308, 127283.	9.3	33
23	Catalytic conversion of CO ₂ and shale gas-derived substrates into saturated carbonates and derivatives: Catalyst design, performances and reaction mechanism. <i>Journal of CO₂ Utilization</i> , 2019, 34, 115-148.	6.8	32
24	Effects of Temperature and Catalyst to Oil Weight Ratio on the Catalytic Conversion of Heavy Oil to Propylene Using ZSM-5 and USY Catalysts. <i>Journal of Natural Gas Chemistry</i> , 2007, 16, 92-99.	1.8	31
25	Selective oxidation of glycerol to carboxylic acids on Pt(111) in base-free medium: A periodic density functional theory investigation. <i>Applied Surface Science</i> , 2019, 497, 143661.	6.1	31
26	Engineering three-layer core-shell S-1/TS-1@dendritic-SiO ₂ supported Au catalysts towards improved performance for propene epoxidation with H ₂ and O ₂ . <i>Green Energy and Environment</i> , 2020, 5, 473-483.	8.7	30
27	Propene epoxidation with H ₂ and O ₂ on Au/TS-1 catalyst: Cost-effective synthesis of small-sized mesoporous TS-1 and its unique performance. <i>Catalysis Today</i> , 2020, 347, 102-109.	4.4	29
28	Equivalent Reactor Network Model for Simulating the Air Gasification of Polyethylene in a Conical Spouted Bed Gasifier. <i>Energy & Fuels</i> , 2014, 28, 6830-6840.	5.1	28
29	Enhancing the dynamic electron transfer of Au species on wormhole-like TS-1 for boosting propene epoxidation performance with H ₂ and O ₂ . <i>Green Energy and Environment</i> , 2020, 5, 433-443.	8.7	28
30	Enhanced performance of bimetallic PtCo/MCM-41 catalysts for glycerol oxidation in base-free medium. <i>Catalysis Science and Technology</i> , 2019, 9, 4909-4919.	4.1	27
31	Residue Catalytic Cracking Process for Maximum Ethylene and Propylene Production. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14366-14375.	3.7	25
32	Toward Selective Dehydrogenation of Glycerol to Lactic Acid over Bimetallic Pt-Co/CeO _x Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14548-14558.	3.7	25
33	Regulating light olefins or aromatics production in ex-situ catalytic pyrolysis of biomass by engineering the structure of tin modified ZSM-5 catalyst. <i>Bioresource Technology</i> , 2021, 330, 124975.	9.6	25
34	Glycolic Acid Production from Ethylene Glycol via Sustainable Biomass Energy: Integrated Conceptual Process Design and Comparative Techno-economic-Society-Environment Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10948-10962.	6.7	25
35	Mechanistic Insights into the Pore Confinement Effect on Bimolecular and Monomolecular Cracking Mechanisms of n-Octane over HY and HZSM-5 Zeolites: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12222-12230.	3.1	24
36	Producing glyceric acid from glycerol via integrating vacuum dividing wall columns: conceptual process design and techno-economic-environmental analysis. <i>Green Chemistry</i> , 2021, 23, 3664-3676.	9.0	24

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37	Multifunctional Two-Stage Riser Catalytic Cracking of Heavy Oil. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 658-668.	3.7	23
38	Effect of modification methods on the surface properties and n-butane isomerization performance of La/Ni-promoted $\text{SO}_4^{2-}/\text{ZrO}_2\text{-Al}_2\text{O}_3$. <i>Applied Surface Science</i> , 2016, 378, 489-495.	6.1	23
39	Efficient Conversion of Light Cycle Oil into High-Octane-Number Gasoline and Light Olefins over a Mesoporous ZSM-5 Catalyst. <i>Energy & Fuels</i> , 2017, 31, 6968-6976.	5.1	23
40	Catalytic cracking of acetic acid and its ketene intermediate over HZSM-5 catalyst: A density functional theory study. <i>Molecular Catalysis</i> , 2017, 437, 11-17.	2.0	23
41	Effect of pore confinement on the adsorption of mono-branched alkanes of naphtha in ZSM-5 and Y zeolites. <i>Applied Surface Science</i> , 2017, 423, 131-138.	6.1	23
42	Comparative study of n-butane isomerization over $\text{SO}_4^{2-}/\text{Al}_2\text{O}_3\text{-ZrO}_2$ and HZSM-5 zeolites at low reaction temperatures. <i>Applied Catalysis A: General</i> , 2018, 550, 98-104.	4.3	23
43	Insights into the reaction pathway of thiophene hydrodesulfurization over corner site of MoS_2 catalyst: A density functional theory study. <i>Molecular Catalysis</i> , 2019, 463, 45-53.	2.0	23
44	Revealing the Effect of Nickel Particle Size on Carbon Formation Type in the Methane Decomposition Reaction. <i>Catalysts</i> , 2020, 10, 890.	3.5	23
45	One-step leap in achieving oil-to-chemicals by using a two-stage riser reactor: Molecular-level process model and multi-objective optimization strategy. <i>Chemical Engineering Journal</i> , 2022, 444, 136684.	12.7	23
46	Synergistic Process for Coker Gas Oil Catalytic Cracking and Gasoline Reformation. <i>Energy & Fuels</i> , 2013, 27, 654-665.	5.1	22
47	Towards high activity of hydrogen production from ammonia borane over efficient non-noble Ni_5P_4 catalyst. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17112-17120.	7.1	22
48	Mesopore-free Strategy to Construct Hierarchical TS-1 in a Highly Concentrated System for Gas-Phase Propene Epoxidation with H_2 and O_2 . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26134-26142.	8.0	22
49	NiMgAlMo catalyst derived from a guest-host MoO_4^{2-} -mediated layered double hydroxide: High performance for the methane decomposition reaction. <i>Applied Catalysis A: General</i> , 2020, 597, 117551.	4.3	21
50	PO_4^{3-} Coordinated Robust Single-Atom Platinum Catalyst for Selective Polyol Oxidation**. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	21
51	Hydrogenation and TMP Coupling Process: Novel Process Design, Techno-Economic Analysis, Environmental Assessment and Thermo-Economic Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10482-10494.	3.7	20
52	Regulating catalyst morphology to boost the stability of $\text{Ni@Mo}/\text{Al}_2\text{O}_3$ catalyst for ebullated-bed residue hydrotreating. <i>Green Energy and Environment</i> , 2021, 6, 283-290.	8.7	20
53	Catalytic Transfer Hydrogenolysis of Glycerol over Heterogeneous Catalysts: A Short Review on Mechanistic Studies. <i>Chemical Record</i> , 2021, 21, 1792-1810.	5.8	20
54	Promoting catalytic transfer hydrodecarbonylation of methyl stearate over bimetallic CoNi/HAP catalysts with strong electronic coupling effect. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121138.	20.2	20

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55	Consequence of heterogeneity of active sites for reactivity mechanism of n-butane isomerization over $\text{SO}_4^{2-}/\text{ZrO}_2\text{-Al}_2\text{O}_3$ catalyst. <i>Applied Catalysis A: General</i> , 2017, 542, 311-316.	4.3	19
56	Adsorption and Separation Mechanism of Thiophene/Benzene in MFI Zeolite: A GCMC Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25818-25826.	3.1	19
57	Rationally constructed Ti sites of TS-1 for epoxidation reactions. <i>Science Bulletin</i> , 2021, 66, 1945-1949.	9.0	19
58	Crude oil hierarchical catalytic cracking for maximizing chemicals production: Pilot-scale test, process optimization strategy, techno-economic-society-environment assessment. <i>Energy Conversion and Management</i> , 2022, 253, 115149.	9.2	19
59	Isomerization of n-Butane over $\text{SO}_4^{2-}/\text{Al}_2\text{O}_3\text{-ZrO}_2$ in a Circulated Fluidized Bed Reactor: Prospects for Commercial Application. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8456-8464.	3.7	18
60	Recent Advances on Purification of Lactic Acid. <i>Chemical Record</i> , 2020, 20, 1236-1256.	5.8	18
61	Insight into the basic strength-dependent catalytic performance in aqueous phase oxidation of glycerol to glyceric acid. <i>Chemical Engineering Science</i> , 2021, 230, 116191.	3.8	18
62	Equivalent Reactor Network Model for the Modeling of Fluid Catalytic Cracking Riser Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 8732-8742.	3.7	17
63	Interfacial catalysts for sustainable chemistry: advances on atom and energy efficient glycerol conversion to acrylic acid. <i>Green Chemistry</i> , 2021, 23, 51-76.	9.0	17
64	Octadecanol Production from Methyl Stearate by Catalytic Transfer Hydrogenation over Synergistic Co/HAP Catalysts. <i>Energy & Fuels</i> , 2021, 35, 9970-9982.	5.1	17
65	In Situ Upgrading of Light Fluid Catalytic Cracking Naphtha for Minimum Loss. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 6366-6376.	3.7	14
66	Adsorption and separation of n/iso-pentane on zeolites: A GCMC study. <i>Journal of Molecular Graphics and Modelling</i> , 2018, 80, 59-66.	2.4	14
67	Effect of dispersion on the adsorption of polycyclic aromatic hydrocarbons over the $\gamma\text{-Al}_2\text{O}_3$ (110) surface. <i>Applied Surface Science</i> , 2019, 486, 137-143.	6.1	14
68	Hydrogenolysis of Glycerol to Propylene Glycol: Energy, Tech-Economic, and Environmental Studies. <i>Frontiers in Chemistry</i> , 2021, 9, 778579.	3.6	14
69	Numerical study of counter-current gas-solid flow in FCC disengager and stripper. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 176-188.	1.7	13
70	Effect of acid strength on the formation mechanism of tertiary butyl carbocation in initial C4 alkylation reaction over H-BEA zeolite: A density functional theory study. <i>Catalysis Today</i> , 2020, 355, 171-179.	4.4	13
71	Non-noble metal catalysts for transfer hydrogenation of levulinic acid: The role of surface morphology and acid-base pairs. <i>Materials Today Energy</i> , 2020, 18, 100501.	4.7	13
72	Catalytic Transfer Hydrogenolysis of Bio-Polyols to Renewable Chemicals over Bimetallic PtPd/C Catalysts: Size-Dependent Activity and Selectivity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5305-5316.	6.7	13

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73	Effect of Aluminum Addition and Surface Moisture Content on the Catalytic Activity of Sulfated Zirconia in n-Butane Isomerization. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14638-14645.	3.7	12
74	Diffusion properties of aromatic hydrocarbons in mesoporous alumina: A molecular dynamics study. <i>Chemical Engineering Science</i> , 2019, 204, 110-117.	3.8	12
75	Enhancing the Conversion of Polycyclic Aromatic Hydrocarbons from Naphthenic Heavy Oil: Novel Process Design, Comparative Techno-Economic Analysis, and Life Cycle Assessment. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 20086-20101.	3.7	12
76	Opportunities for utilizing waste cooking oil in crude to petrochemical process: Novel process design, optimal strategy, techno-economic analysis and life cycle society-environment assessment. <i>Energy</i> , 2021, 237, 121530.	8.8	12
77	Technoeconomic Analysis and Life Cycle Assessment of Five VGO Processing Pathways in China. <i>Energy & Fuels</i> , 2019, 33, 12106-12120.	5.1	11
78	Conceptual Coupled Process for Catalytic Cracking of High-Acid Crude Oil. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4794-4801.	3.7	11
79	Insight into the Effect of Lewis Acid of W/Al-MCM-41 Catalyst on Metathesis of 1-Butene and Ethylene. <i>Applied Catalysis A: General</i> , 2020, 604, 117772.	4.3	11
80	Enhancing light olefins and aromatics production from naphthenic-based vacuum gas oil: Process integration, techno-economic analysis and life cycle environmental assessment. <i>Computers and Chemical Engineering</i> , 2021, 146, 107207.	3.8	11
81	Dipole Moment Variation of a Petroleum Residue during Catalytic and Thermal Upgrading. <i>Energy & Fuels</i> , 2009, 23, 2086-2089.	5.1	10
82	Study on the dipole moment of asphaltene molecules through dielectric measuring. <i>Fuel</i> , 2015, 140, 609-615.	6.4	10
83	Deoxygenation mechanism of methyl butyrate on HZSM-5: A density functional theory study. <i>Molecular Catalysis</i> , 2019, 479, 110588.	2.0	10
84	Understanding the Effect of Acid Strength on the Alkane-Alkoxide Hydride Transfer Reaction over Solid Acid Catalysts: Insights from Density Functional Theory. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9314-9321.	3.7	10
85	Nanostructured Metal Catalysts for Selective Hydrogenation and Oxidation of Cellulosic Biomass to Chemicals. <i>Chemical Record</i> , 2019, 19, 1952-1994.	5.8	10
86	Synergistic Process for High Nitrogen Content Feedstocks Catalytic Cracking: A Case Study of Controlling the Reactions of Nitrogen Compounds in Situ. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 5718-5727.	3.7	9
87	Novel Propylene Production Route: Utilizing Hydrotreated Shale Oil as Feedstock via Two-Stage Riser Catalytic Cracking. <i>Energy & Fuels</i> , 2015, 29, 7190-7195.	5.1	9
88	Structurally Strained Bimetallic PtFe Nanocatalysts Show Tunable Catalytic Selectivity in Aqueous Oxidation of Bio-Polyols to Dicarboxylic Acids. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 12078-12086.	3.7	9
89	Influence of Lewis Acid on the Activity and Selectivity of Pt/MCM-41 (Al) Catalysts for Oxidation of C ₃ Polyols in Base-Free Medium. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20259-20269.	3.7	9
90	Fe ³⁺ -Mediated Pt/Y Zeolite Catalysts Display Enhanced Metal-Bronsted Acid Interaction and Synergistic Cascade Hydrogenolysis Reactions. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17387-17398.	3.7	9

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91	Synergistic Bimetallic Pd@Pt/TiO ₂ Catalysts for Hydrogenolysis of Xylitol with In Situ-Formed H ₂ . Industrial & Engineering Chemistry Research, 2020, 59, 13879-13891.	3.7	9
92	Au-Promoted Pt nanoparticles supported on MgO/SBA-15 as an efficient catalyst for selective oxidation of glycerol. AIChE Journal, 2021, 67, e17196.	3.6	9
93	Effective Regulation of the Au Spatial Position in a Hierarchically Structured Au/HTS-1 Catalyst: To Boost the Catalytic Performance of Propene Epoxidation with H ₂ and O ₂ . ACS Sustainable Chemistry and Engineering, 2022, 10, 9515-9524.	6.7	9
94	Multifunctional two-stage riser fluid catalytic cracking process. Applied Petrochemical Research, 2014, 4, 395-400.	1.3	8
95	Chemical Synthesis of Adipic Acid from Glucose and Derivatives: Challenges for Nanocatalyst Design. ACS Sustainable Chemistry and Engineering, 2020, 8, 18732-18754.	6.7	8
96	Electronic coupling enhanced PtCo/CeO ₂ hybrids as highly active catalysts for the key dehydrogenation step in conversion of bio-derived polyols. Chemical Engineering Science, 2021, 229, 116060.	3.8	8
97	Selective propylene epoxidation in liquid phase using highly dispersed Nb catalysts incorporated in mesoporous silicates. Chinese Journal of Chemical Engineering, 2018, 26, 1278-1284.	3.5	7
98	PtRu/Zn ₃ Ce ₁ O _x catalysts with Lewis acid-base pairs show synergistic performances for the conversion of glycerol in the absence of externally added H ₂ . Catalysis Science and Technology, 2020, 10, 4386-4395.	4.1	7
99	Insights into the confinement effect on isobutane alkylation with C ₄ olefin catalyzed by zeolite catalyst: A combined theoretical and experimental study. Chinese Journal of Chemical Engineering, 2022, 47, 174-184.	3.5	7
100	Strong metal-support interaction of palladium carbide in PtPd/C catalysts for enhanced catalytic transfer hydrogenolysis of glycerol. Biomass and Bioenergy, 2022, 163, 106507.	5.7	6
101	Effect of Si/Al ratio on tetralin adsorption on Y zeolite: a DFT study. Molecular Simulation, 2017, 43, 945-952.	2.0	5
102	Promoting effect of Ni on the structure and electronic properties of Ni _x Mo(1-x)S ₂ catalyst and benzene adsorption: A periodic DFT study. Applied Surface Science, 2019, 471, 607-614.	6.1	5
103	Numerical Investigations of the Oxidative Dehydrogenation of Propane in a Spouted Bed Reactor. Energy & Fuels, 2020, 34, 10858-10871.	5.1	5
104	Computation-guided descriptor for efficient zeolite catalysts screening in C ₄ alkylation process. Chemical Engineering Science, 2021, 241, 116726.	3.8	5
105	Theoretical and experimental investigations into light alkane dehydrogenation over chromium-containing catalyst. Fuel, 2022, 320, 123893.	6.4	5
106	Insight into the selective oxidation mechanism of glycerol to 1,3-dihydroxyacetone over AuCu-ZnO interface. AIChE Journal, 2022, 68, .	3.6	5
107	Understanding the Diffusion Properties of Sulfur-Containing Compounds in Mesoporous Alumina: A Molecular Dynamics Study. Industrial & Engineering Chemistry Research, 2022, 61, 3023-3030.	3.7	4
108	Effect of Phosphorus Modification on the Acidity, Nanostructure of the Active Phase, and Catalytic Performance of Residue Hydrodenitrogenation Catalysts. ACS Omega, 2020, 5, 19111-19119.	3.5	3

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109	Investigation on Adsorption and Separation Behavior of Propane/Propene Mixtures in Zeolites. Journal of Nanoscience and Nanotechnology, 2019, 19, 7679-7688.	0.9	3
110	Improving FCC Product Distribution with Two-Stage Riser Technology. Petroleum Science and Technology, 2006, 24, 379-387.	1.5	2
111	A DFT Study for Catalytic Deoxygenation of Methyl Butyrate on a Lewis Acid Site of ZSM-5 Zeolite. Catalysts, 2020, 10, 1233.	3.5	2
112	Reversing Titanium Oligomer Formation towards High Efficiency and Green Synthesis of Titanium-Containing Molecular Sieves. Angewandte Chemie, 2021, 133, 3485-3490.	2.0	2
113	Recent Advances on Synthesis of CoCO_3 with Controlled Morphologies. Chemical Record, 2022, 22, e202200021.	5.8	2