

Haijun Jiao

List of Publications by Year in descending order

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176
papers

13,026
citations

43973

48
h-index

24179

110
g-index

181
all docs

181
docs citations

181
times ranked

9742
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissociative adsorption of H ₂ O and CO ₂ on the clean and O-pre-covered high index Ru surfaces: Corrugated Ru(111) and stepped Ru(2021) surfaces. <i>Surface Science</i> , 2022, 715, 121936.	0.8	3
2	Catalytic and mechanistic studies of a highly active and <i>E</i> -selective Co(ⁱⁱ) PNN ^H pincer catalyst system for transfer-semihydrogenation of internal alkynes. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 761-770.	3.0	5
3	(<i>In situ</i>) spectroscopic studies on state-of-the-art Pd(ⁱⁱ) catalysts in solution for the alkoxy carbonylation of alkenes. <i>Catalysis Science and Technology</i> , 2022, 12, 3175-3189.	2.1	5
4	Unraveling the Synergetic Effect of the FeO _x -Cu Model System in Catalyzing the Water-Gas Shift Reaction. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6241-6248.	1.5	1
5	Regiodivergent Reductive Opening of Epoxides by Catalytic Hydrogenation Promoted by a (Cyclopentadienone)iron Complex. <i>ACS Catalysis</i> , 2022, 12, 235-246.	5.5	17
6	Surface hydroxyl dependent adsorption of ruthenium on SiO ₂ (001) - Understanding metal-support interaction. <i>Applied Surface Science</i> , 2022, 593, 153396.	3.1	3
7	Revisiting Oxygen Adsorption on Ir(100). <i>Journal of Physical Chemistry C</i> , 2022, 126, 10035-10044.	1.5	7
8	Mechanisms of CO ₂ hydrogenative conversion on supported Ni/ZrO ₂ catalyst. <i>Applied Surface Science</i> , 2022, 600, 154151.	3.1	3
9	Interactive network of the dehydrogenation of alkanes, alkenes and alkynes - surface carbon hydrogenative coupling on Ru(111). <i>Catalysis Science and Technology</i> , 2021, 11, 191-210.	2.1	4
10	A General and Highly Selective Palladium-Catalyzed Hydroamidation of 1,3-Diynes. <i>Angewandte Chemie</i> , 2021, 133, 375-383.	1.6	7
11	A General and Highly Selective Palladium-Catalyzed Hydroamidation of 1,3-Diynes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 371-379.	7.2	26
12	Dehydropolymerisation of methylamine borane using highly active rhodium(ⁱⁱⁱ) bis(thiophosphinite) pincer complexes: catalytic and mechanistic insights. <i>Catalysis Science and Technology</i> , 2021, 11, 3514-3526.	2.1	8
13	Efficient Palladium-Catalyzed Carbonylation of 1,3-Dienes: Selective Synthesis of Adipates and Other Aliphatic Diesters. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9527-9533.	7.2	26
14	Efficient Palladium-Catalyzed Carbonylation of 1,3-Dienes: Selective Synthesis of Adipates and Other Aliphatic Diesters. <i>Angewandte Chemie</i> , 2021, 133, 9613-9619.	1.6	4
15	Nonoxidative Conversion of Methane, Ethane, and Ethylene on Flat Ir(111) and Stepped Ir(211) Surfaces. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5602-5615.	1.5	1
16	Catalytic Activity of Aliphatic PNP Ligated Co(^{III} /I) Amine and Amido Complexes in Hydrogenation Reaction - Structure, Stability, and Substrate Dependence. <i>ACS Catalysis</i> , 2021, 11, 4593-4605.	5.5	6
17	Pyrimidopteridine-Catalyzed Hydroamination of Stilbenes with Primary Amines: A Dual Photoredox and Hydrogen Atom Transfer Catalyst. <i>ACS Catalysis</i> , 2021, 11, 4862-4869.	5.5	15
18	Adsorption of CO, H ₂ , H ₂ O, and CO ₂ on Fe-, Co-, Ni-, Cu-, Pd-, and Pt-Doped Mo ₂ C(101) Surfaces. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11419-11431.	1.5	3

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19	Mechanisms of Co ^{II} and Acid Jointly Catalyzed Domino Conversion of CO ₂ , H ₂ , and CH ₃ OH to Dialkoxymethane: A DFT Study. <i>ACS Catalysis</i> , 2021, 11, 6908-6919.	5.5	9
20	The Facile Dissociation of Carbon-Oxygen Bonds in CO ₂ and CO on the Surface of LaCoSiH _x Intermetallic Compound. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25538-25545.	7.2	17
21	The Facile Dissociation of Carbon-Oxygen Bonds in CO ₂ and CO on the Surface of LaCoSiH _x Intermetallic Compound. <i>Angewandte Chemie</i> , 2021, 133, 25742-25749.	1.6	0
22	Zirconium-hydride-catalyzed site-selective hydroboration of amides for the synthesis of amines: Mechanism, scope, and application. <i>Chinese Journal of Catalysis</i> , 2021, 42, 2059-2067.	6.9	13
23	Cycloaddition mechanisms of CO ₂ and epoxide catalyzed by salophen an organocatalyst free from metals and halides. <i>Catalysis Science and Technology</i> , 2021, 11, 2529-2539.	2.1	8
24	Synthesis of Phosphinines from Co ^{II} -Catalyzed [2+2+2] Cycloaddition Reactions. <i>ACS Catalysis</i> , 2021, 11, 13434-13444.	5.5	10
25	A recyclable CoGa intermetallic compound catalyst for the hydroformylation reaction. <i>Journal of Catalysis</i> , 2021, 404, 244-249.	3.1	11
26	Simple mechanisms of CH ₄ reforming with CO ₂ and H ₂ O on a supported Ni/ZrO ₂ catalyst. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26392-26400.	1.3	4
27	In situ formation of ZnOx species for efficient propane dehydrogenation. <i>Nature</i> , 2021, 599, 234-238.	13.7	133
28	Hydrogen Adsorption on Ir(111), Ir(100) and Ir(110) Surface and Coverage Dependence. <i>Surface Science</i> , 2020, 692, 121514.	0.8	8
29	Unraveling the Origins of the Synergy Effect between ZrO ₂ and CrO _x in Supported CrZrO _x for Propene Formation in Nonoxidative Propane Dehydrogenation. <i>ACS Catalysis</i> , 2020, 10, 1575-1590.	5.5	46
30	Mechanistic Aspects of CO Activation and C-C Bond Formation on the Fe/C- and Fe-Terminated Fe ₃ C(010) Surfaces. <i>ACS Catalysis</i> , 2020, 10, 877-890.	5.5	21
31	Versatile Fluorinated Building Blocks by Stereoselective (Per)fluoroalkenylation of Ketones. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 70-81.	1.2	8
32	CpCo(<i>scpr</i>) pre-catalysts for [2 + 2 + 2] cycloaddition reactions: synthesis and reactivity. <i>Catalysis Science and Technology</i> , 2020, 10, 8005-8014.	2.1	6
33	Hydrocracking of Fused Aromatic Hydrocarbons Catalyzed by Al-Substituted HZSM-5 A Case Study of 9,10-Dihydroanthracene. <i>ACS Catalysis</i> , 2020, 10, 9215-9226.	5.5	13
34	Coverage-Dependent Water Dissociative Adsorption Properties on Nickel Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25835-25845.	1.5	6
35	Tuning the Selectivity of Palladium Catalysts for Hydroformylation and Semihydrogenation of Alkynes: Experimental and Mechanistic Studies. <i>ACS Catalysis</i> , 2020, 10, 12167-12181.	5.5	31
36	Structure-Activity-Selectivity Relationships in Propane Dehydrogenation over Rh/ZrO ₂ Catalysts. <i>ACS Catalysis</i> , 2020, 10, 6377-6388.	5.5	47

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37	Exploring direct and hydrogen-assisted CO activation on iridium surfaces – surface dependent activity. <i>Catalysis Science and Technology</i> , 2020, 10, 4424-4435.	2.1	2
38	Reduction Over Condensation of Carbonyl Compounds Through a Transient Hemiaminal Intermediate Using Hydrazine. <i>Journal of Organic Chemistry</i> , 2020, 85, 9213-9218.	1.7	2
39	Mechanistic Insights into the Chemo-Selective Dehydrogenative Silylation of Alkenes Catalyzed by Bis(imino)pyridine Cobalt Complex from DFT Computations. <i>ChemCatChem</i> , 2020, 12, 3890-3899.	1.8	2
40	Molybdenum carbide supported metal catalysts (M _n /Mo _x C; M = Co, Ni, Cu, Pd,) <i>TJ ETQq0 0 0 rgBT /Overlock 1</i> 3029-3046.	2.1	15
41	Zirconium-Catalyzed Atom-Economical Synthesis of 1,1-Diborylalkanes from Terminal and Internal Alkenes. <i>Angewandte Chemie</i> , 2020, 132, 13710-13714.	1.6	7
42	Zirconium-Catalyzed Atom-Economical Synthesis of 1,1-Diborylalkanes from Terminal and Internal Alkenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13608-13612.	7.2	38
43	Chemoselective semihydrogenation of alkynes catalyzed by manganese(<i>scp</i>)-PNP pincer complexes. <i>Catalysis Science and Technology</i> , 2020, 10, 3994-4001.	2.1	43
44	General and selective synthesis of primary amines using Ni-based homogeneous catalysts. <i>Chemical Science</i> , 2020, 11, 4332-4339.	3.7	29
45	Determining the structures, acidity and adsorption properties of Al substituted HZSM-5. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18758-18768.	1.3	18
46	Coverage dependent structure and energy of water dissociative adsorption on clean and O-pre-covered Ni (100) and Ni(110). <i>Catalysis Science and Technology</i> , 2019, 9, 4725-4743.	2.1	8
47	Nitridation of the metallic Mo2C(001) surface from NH3 dissociative adsorption – A DFT study. <i>Surface Science</i> , 2019, 689, 121466.	0.8	12
48	A selective route to aryl-triphosphiranes and their titanocene-induced fragmentation. <i>Chemical Science</i> , 2019, 10, 7859-7867.	3.7	34
49	Fe(II) Hydride Complexes for the Homogeneous Dehydrocoupling of Hydrazine Borane: Catalytic Mechanism via DFT Calculations and Detailed Spectroscopic Characterization. <i>Organometallics</i> , 2019, 38, 2714-2723.	1.1	12
50	Surface Carbon Hydrogenation on Precovered Fe(110) with Spectator-Coverage-Dependent Chain Initiation and Propagation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25657-25667.	1.5	6
51	Molecular or dissociative adsorption of water on clean and oxygen pre-covered Ni(111) surfaces. <i>Catalysis Science and Technology</i> , 2019, 9, 199-212.	2.1	9
52	Mechanistic insight into CO activation, methanation and C-C bond formation from coverage dependent CO hydrogenation on Fe(110). <i>Surface Science</i> , 2019, 689, 121456.	0.8	10
53	Mechanism of Graphene Formation via Detonation Synthesis: A DFTB Nanoreactor Approach. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3654-3665.	2.3	25
54	Mechanisms and Activity of 1-Phenylethanol Dehydrogenation Catalyzed by Bifunctional NHC- ^{III} Complex. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3929-3936.	1.2	4

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55	1-Titanacyclobuta-2,3-diene "an elusive four-membered cyclic allene. <i>Chemical Science</i> , 2019, 10, 5319-5325.	3.7	26
56	Visiting CH ₄ formation and C1-C1 couplings to tune CH ₄ selectivity on Fe surfaces. <i>Journal of Catalysis</i> , 2019, 372, 217-225.	3.1	19
57	Iron-PNP-pincer-Catalyzed Transfer Dehydrogenation of Secondary Alcohols. <i>ChemSusChem</i> , 2019, 12, 2988-2993.	3.6	14
58	Cobalt-Catalyzed Aqueous Dehydrogenation of Formic Acid. <i>Chemistry - A European Journal</i> , 2019, 25, 8459-8464.	1.7	54
59	High-Coverage CO Adsorption and Dissociation on Ir(111), Ir(100), and Ir(110) from Computations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6487-6495.	1.5	12
60	Enantioselective Hydrogenation of Ketones using Different Metal Complexes with a Chiral PNP Pincer Ligand. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 1913-1920.	2.1	37
61	Morphology and Reactivity Evolution of HCP and FCC Ru Nanoparticles under CO Atmosphere. <i>ACS Catalysis</i> , 2019, 9, 2768-2776.	5.5	36
62	CO Self-Promoting Hydrogenation on CO-Saturated Ru(0001): A New Theoretical Insight into How H ₂ Participates in CO Activation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6508-6515.	1.5	9
63	The effect of phase composition and crystallite size on activity and selectivity of ZrO ₂ in non-oxidative propane dehydrogenation. <i>Journal of Catalysis</i> , 2019, 371, 313-324.	3.1	74
64	Exploring the mechanism of alkene hydrogenation catalyzed by defined iron complex from DFT computation. <i>Journal of Molecular Modeling</i> , 2019, 25, 61.	0.8	3
65	Manganese PNP-pincer catalyzed isomerization of allylic/homo-allylic alcohols to ketones " activity, selectivity, efficiency. <i>Catalysis Science and Technology</i> , 2019, 9, 6327-6334.	2.1	14
66	Homogeneous cobalt-catalyzed reductive amination for synthesis of functionalized primary amines. <i>Nature Communications</i> , 2019, 10, 5443.	5.8	57
67	Bifunctional aliphatic PNP pincer catalysts for hydrogenation: Mechanisms and scope. <i>Advances in Inorganic Chemistry</i> , 2019, 73, 323-384.	0.4	13
68	Visiting the Limits between a Highly Strained 1-Zirconacyclobuta-2,3-diene and Chemically Robust Dizirconacyclooctatetraene. <i>Chemistry - A European Journal</i> , 2018, 24, 5667-5674.	1.7	20
69	Cooperative catalytic methoxycarbonylation of alkenes: uncovering the role of palladium complexes with hemilabile ligands. <i>Chemical Science</i> , 2018, 9, 2510-2516.	3.7	94
70	Selective Base-free Transfer Hydrogenation of α,β -Unsaturated Carbonyl Compounds using <i>i</i> -PrOH or EtOH as Hydrogen Source. <i>Chemistry - A European Journal</i> , 2018, 24, 2725-2734.	1.7	34
71	Exploring the Chemoselective Dehydrogenative Silylation and Hydrogenation of Divinylsiloxane with Hydrosilane from DFT Computation. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 1993-1999.	1.2	2
72	Exploring the activities of vanadium, niobium, and tantalum-PNP pincer complexes in the hydrogenation of phenyl-substituted CN, CN, CC, CC, and CO functional groups. <i>Comptes Rendus Chimie</i> , 2018, 21, 303-309.	0.2	8

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73	Isomerization of Allylic Alcohols to Ketones Catalyzed by Well-Defined Iron PNP Pincer Catalysts. <i>Chemistry - A European Journal</i> , 2018, 24, 4043-4049.	1.7	38
74	Toward Green Acylation of (Hetero)arenes: Palladium-Catalyzed Carbonylation of Olefins to Ketones. <i>ACS Central Science</i> , 2018, 4, 30-38.	5.3	22
75	Cobalt Pincer Complexes for Catalytic Reduction of Carboxylic Acid Esters. <i>Chemistry - A European Journal</i> , 2018, 24, 1046-1052.	1.7	63
76	Successive Dissociation of CO, CH ₄ , C ₂ H ₆ , and CH ₃ CHO on Fe(110): Retrosynthetic Understanding of FTS Mechanism. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28846-28855.	1.5	11
77	Benzyl Alcohol Dehydrogenative Coupling Catalyzed by Defined Mn and Re PNP Pincer Complexes – A Computational Mechanistic Study. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4643-4657.	1.0	16
78	Aerobic Oxidative Homo- and Cross-Coupling of Amines Catalyzed by Phenazine Radical Cations. <i>Journal of Organic Chemistry</i> , 2018, 83, 13481-13490.	1.7	36
79	Control of coordinatively unsaturated Zr sites in ZrO ₂ for efficient C-H bond activation. <i>Nature Communications</i> , 2018, 9, 3794.	5.8	133
80	Exploring the mechanisms of aqueous methanol dehydrogenation catalyzed by defined PNP Mn and Re pincer complexes under base-free as well as strong base conditions. <i>Catalysis Science and Technology</i> , 2018, 8, 3649-3665.	2.1	32
81	About the Inversion Barriers of P-Chirogenic Triaryl-Substituted Phosphanes. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2984-2994.	1.2	16
82	Mechanisms of CO Activation, Surface Oxygen Removal, Surface Carbon Hydrogenation, and C-C Coupling on the Stepped Fe(710) Surface from Computation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15505-15519.	1.5	12
83	Potassium promotion on CO hydrogenation on the $\sqrt{3}\times\sqrt{3}$ -Fe 5 C 2 (111) surface with carbon vacancy. <i>Applied Catalysis A: General</i> , 2017, 534, 22-29.	2.2	16
84	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. <i>Angewandte Chemie</i> , 2017, 129, 574-577.	1.6	37
85	Redox-Disproportionation of a Decamethyltitanocene(III) Isonitrile Alkynyl Complex. <i>Chemistry - A European Journal</i> , 2017, 23, 7891-7895.	1.7	14
86	Adsorption and dissociation of H ₂ O and CO ₂ on the clean and O-pre-covered Ru(0001) surface. <i>Applied Catalysis A: General</i> , 2017, 540, 31-36.	2.2	8
87	Hydrogenation of phenyl-substituted C≡N, C≡N, C≡C, C≡C and C≡O functional groups by Cr, Mo and W PNP pincer complexes – a DFT study. <i>Catalysis Science and Technology</i> , 2017, 7, 2298-2307.	2.1	11
88	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 559-562.	7.2	158
89	Oxidation of the hexagonal Mo ₂ C(101) surface by H ₂ O dissociative adsorption. <i>Catalysis Science and Technology</i> , 2017, 7, 2789-2797.	2.1	6
90	Reaction of CO, H ₂ O, H ₂ and CO ₂ on the clean as well as O, OH and H precovered Fe(100) and Fe(111) surfaces. <i>Catalysis Science and Technology</i> , 2017, 7, 427-440.	2.1	22

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91	Mechanism of coverage dependent CO adsorption and dissociation on the Mo(100) surface. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2186-2192.	1.3	11
92	Titanocene Silylpropyne Complexes: Promising Intermediates en route to a Four-Membered η^2 - η^3 -diene?. <i>Chemistry - A European Journal</i> , 2017, 23, 14158-14162.	1.7	9
93	Location, distribution and acidity of Al substitution in ZSM-5 with different Si/Al ratios – a periodic DFT computation. <i>Catalysis Science and Technology</i> , 2017, 7, 5694-5708.	2.1	30
94	Manganese(I)-Catalyzed Enantioselective Hydrogenation of Ketones Using a Defined Chiral PNP Pincer Ligand. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11237-11241.	7.2	180
95	Manganese(I)-Catalyzed Enantioselective Hydrogenation of Ketones Using a Defined Chiral PNP Pincer Ligand. <i>Angewandte Chemie</i> , 2017, 129, 11389-11393.	1.6	64
96	Ligand- and Solvent-Tuned Chemoselective Carbonylation of Bromoaryl Triflates. <i>Chemistry - A European Journal</i> , 2017, 23, 13369-13378.	1.7	32
97	About copper promotion in CH ₄ formation from CO hydrogenation on Fe(100): A density functional theory study. <i>Applied Catalysis A: General</i> , 2017, 530, 83-92.	2.2	16
98	Activation mechanisms of H ₂ , O ₂ , H ₂ O, CO ₂ , CO, CH ₄ and C ₂ H _x on metallic Mo ₂ C(001) as well as Mo/C terminated Mo ₂ C(101) from density functional theory computations. <i>Applied Catalysis A: General</i> , 2016, 524, 223-236.	2.2	39
99	Improved Second Generation Iron Pincer Complexes for Effective Ester Hydrogenation. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 820-825.	2.1	104
100	A comparative computationally study about the defined m(II) pincer hydrogenation catalysts (m = Fe, Ru). <i>Journal of Physical Chemistry C</i> , 2016, 120, 19265-19270.	1.5	38
101	Methane formation mechanism in the initial methanol-to-olefins process catalyzed by SAPO-34. <i>Catalysis Science and Technology</i> , 2016, 6, 5526-5533.	2.1	43
102	Selective Catalytic Hydrogenations of Nitriles, Ketones, and Aldehydes by Well-Defined Manganese Pincer Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 8809-8814.	6.6	485
103	Kinetics and thermodynamics of polymethylbenzene formation over zeolites with different pore sizes for understanding the mechanisms of methanol to olefin conversion – a computational study. <i>Catalysis Science and Technology</i> , 2016, 6, 5326-5335.	2.1	21
104	Mechanisms of Mo ₂ C(101)-Catalyzed Furfural Selective Hydrodeoxygenation to 2-Methylfuran from Computation. <i>ACS Catalysis</i> , 2016, 6, 6790-6803.	5.5	51
105	Hydrogenation of Esters to Alcohols Catalyzed by Defined Manganese Pincer Complexes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15364-15368.	7.2	259
106	Hydrogenation of Esters to Alcohols Catalyzed by Defined Manganese Pincer Complexes. <i>Angewandte Chemie</i> , 2016, 128, 15590-15594.	1.6	88
107	Mechanisms of H ₂ O and CO ₂ Formation from Surface Oxygen Reduction on Co(0001). <i>Journal of Physical Chemistry C</i> , 2016, 120, 19265-19270.	1.5	25
108	When Density Functional Approximations Meet Iron Oxides. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5132-5144.	2.3	102

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109	How far away are iron carbide clusters from the bulk?. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32944-32951.	1.3	12
110	Mechanisms of H- and OH-assisted CO activation as well as C-C coupling on the flat Co(0001) surface – revisited. <i>Catalysis Science and Technology</i> , 2016, 6, 8336-8343.	2.1	18
111	Unravelling the Mechanism of Basic Aqueous Methanol Dehydrogenation Catalyzed by Ru-PNP Pincer Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 14890-14904.	6.6	155
112	Surface morphology of orthorhombic Mo ₂ C catalyst and high coverage hydrogen adsorption. <i>Surface Science</i> , 2016, 651, 195-202.	0.8	23
113	Stability and Reactivity of Intermediates of Methanol Related Reactions and C-C Bond Formation over H-ZSM-5 Acidic Catalyst: A Computational Analysis. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6075-6087.	1.5	50
114	Theoretical study about Mo ₂ C(101)-catalyzed hydrodeoxygenation of butyric acid to butane for biomass conversion. <i>Catalysis Science and Technology</i> , 2016, 6, 4923-4936.	2.1	30
115	Structures of seven molybdenum surfaces and their coverage dependent hydrogen adsorption. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6005-6012.	1.3	23
116	Morphology control of K ₂ O promoter on H ₂ Agg carbide (Ĥ-Fe ₅ C ₂) under Fischer-Tropsch synthesis condition. <i>Catalysis Today</i> , 2016, 261, 93-100.	2.2	35
117	Hydrogenation of Aliphatic and Aromatic Nitriles Using a Defined Ruthenium PNP Pincer Catalyst. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 5944-5948.	1.2	51
118	Coverage dependent water dissociative adsorption on Fe(110) from DFT computation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8811-8821.	1.3	60
119	Exploring Furfural Catalytic Conversion on Cu(111) from Computation. <i>ACS Catalysis</i> , 2015, 5, 4020-4032.	5.5	109
120	Reactions of CO, H ₂ O, CO ₂ , and H ₂ on the Clean and Precovered Fe(110) Surfaces – A DFT Investigation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28377-28388.	1.5	40
121	Determining surface structure and stability of Ĥ-Fe ₂ C, Ĥ-Fe ₅ C ₂ , Ĥ-Fe ₃ C and Fe ₄ C phases under carburization environment from combined DFT and atomistic thermodynamic studies. <i>Journal of Lithic Studies</i> , 2015, 1, 44-60.	0.1	50
122	Surface Morphology of Cu Adsorption on Different Terminations of the H ₂ Agg Iron Carbide (Ĥ-Fe ₅ C ₂) Phase. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7371-7385.	1.5	14
123	High coverage adsorption and co-adsorption of CO and H ₂ on Ru(0001) from DFT and thermodynamics. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19446-19456.	1.3	50
124	Coverage Dependent Water Dissociative Adsorption on the Clean and O-Precovered Fe(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11714-11724.	1.5	27
125	Coverage dependent adsorption and co-adsorption of CO and H ₂ on the Cd ₂ -antitype metallic Mo ₂ C(001) surface. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1907-1917.	1.3	17
126	Adsorption and energetics of H ₂ O molecules and O atoms on the Ĥ-Fe ₅ C ₂ (111), (Ĥ ⁴ 111) and (001) surfaces from DFT. <i>Applied Catalysis A: General</i> , 2014, 475, 186-194.	2.2	14

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127	Stable surface terminations of orthorhombic Mo ₂ C catalysts and their CO activation mechanisms. Applied Catalysis A: General, 2014, 478, 146-156.	2.2	37
128	Hydrogen Adsorption Structures and Energetics on Iron Surfaces at High Coverage. Journal of Physical Chemistry C, 2014, 118, 4181-4188.	1.5	84
129	High Coverage CO Adsorption and Dissociation on the Orthorhombic Mo ₂ C(100) Surface. Journal of Physical Chemistry C, 2014, 118, 3162-3171.	1.5	52
130	High Coverage CO Activation Mechanisms on Fe(100) from Computations. Journal of Physical Chemistry C, 2014, 118, 1095-1101.	1.5	54
131	High Coverage Water Aggregation and Dissociation on Fe(100): A Computational Analysis. Journal of Physical Chemistry C, 2014, 118, 26139-26154.	1.5	47
132	Structures and energies of Cu clusters on Fe and Fe ₃ C surfaces from density functional theory computation. Physical Chemistry Chemical Physics, 2014, 16, 26997-27011.	1.3	11
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