List of Publications by Year in descending order

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Ηλιμικίμαο

#	Article	IF	CITATIONS
1	Nucleus-Independent Chemical Shifts:  A Simple and Efficient Aromaticity Probe. Journal of the American Chemical Society, 1996, 118, 6317-6318.	13.7	5,447
2	Selective Catalytic Hydrogenations of Nitriles, Ketones, and Aldehydes by Well-Defined Manganese Pincer Complexes. Journal of the American Chemical Society, 2016, 138, 8809-8814.	13.7	485
3	Hydrogenation of Esters to Alcohols with a Wellâ€Defined Iron Complex. Angewandte Chemie - International Edition, 2014, 53, 8722-8726.	13.8	269
4	Mild and selective hydrogenation of aromatic and aliphatic (di)nitriles with a well-defined iron pincer complex. Nature Communications, 2014, 5, 4111.	12.8	260
5	Hydrogenation of Esters to Alcohols Catalyzed by Defined Manganese Pincer Complexes. Angewandte Chemie - International Edition, 2016, 55, 15364-15368.	13.8	259
6	Manganese(I)â€Catalyzed Enantioselective Hydrogenation of Ketones Using a Defined Chiral PNP Pincer Ligand. Angewandte Chemie - International Edition, 2017, 56, 11237-11241.	13.8	180
7	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. Angewandte Chemie - International Edition, 2017, 56, 559-562.	13.8	158
8	Unravelling the Mechanism of Basic Aqueous Methanol Dehydrogenation Catalyzed by Ru–PNP Pincer Complexes. Journal of the American Chemical Society, 2016, 138, 14890-14904.	13.7	155
9	The Mechanism of Potassium Promoter: Enhancing the Stability of Active Surfaces. Angewandte Chemie - International Edition, 2011, 50, 7403-7406.	13.8	141
10	Kinetic aspect of CO2 reforming of CH4 on Ni(111): A density functional theory calculation. Surface Science, 2007, 601, 1271-1284.	1.9	140
11	Control of coordinatively unsaturated Zr sites in ZrO2 for efficient C–H bond activation. Nature Communications, 2018, 9, 3794.	12.8	133
12	In situ formation of ZnOx species for efficient propane dehydrogenation. Nature, 2021, 599, 234-238.	27.8	133
13	CO2Reforming of CH4on Ni(111):Â A Density Functional Theory Calculation. Journal of Physical Chemistry B, 2006, 110, 9976-9983.	2.6	124
14	Formic Acid Dehydrogenation on Ni(111) and Comparison with Pd(111) and Pt(111). Journal of Physical Chemistry C, 2012, 116, 4149-4156.	3.1	115
15	Exploring Furfural Catalytic Conversion on Cu(111) from Computation. ACS Catalysis, 2015, 5, 4020-4032.	11.2	109
16	Stability of β-Mo ₂ C Facets from ab Initio Atomistic Thermodynamics. Journal of Physical Chemistry C, 2011, 115, 22360-22368.	3.1	108
17	Accurate Calculations of Bond Dissociation Enthalpies with Density Functional Methods. Journal of Physical Chemistry A, 2003, 107, 9991-9996.	2.5	107
18	Improved Second Generation Iron Pincer Complexes for Effective Ester Hydrogenation. Advanced Synthesis and Catalysis, 2016, 358, 820-825.	4.3	104

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19	CO dissociation on clean and hydrogen precovered Fe(111) surfaces. Journal of Catalysis, 2007, 249, 174-184.	6.2	102
20	When Density Functional Approximations Meet Iron Oxides. Journal of Chemical Theory and Computation, 2016, 12, 5132-5144.	5.3	102
21	Coverage-Dependent CO Adsorption and Dissociation Mechanisms on Iron Surfaces from DFT Computations. ACS Catalysis, 2014, 4, 1991-2005.	11.2	95
22	Cooperative catalytic methoxycarbonylation of alkenes: uncovering the role of palladium complexes with hemilabile ligands. Chemical Science, 2018, 9, 2510-2516.	7.4	94
23	Surface morphology of HÃǥg iron carbide (χ-Fe5C2) from ab initio atomistic thermodynamics. Journal of Catalysis, 2012, 294, 47-53.	6.2	90
24	Hydrogenation of Esters to Alcohols Catalyzed by Defined Manganese Pincer Complexes. Angewandte Chemie, 2016, 128, 15590-15594.	2.0	88
25	Hydrogen Adsorption Structures and Energetics on Iron Surfaces at High Coverage. Journal of Physical Chemistry C, 2014, 118, 4181-4188.	3.1	84
26	The effect of phase composition and crystallite size on activity and selectivity of ZrO2 in non-oxidative propane dehydrogenation. Journal of Catalysis, 2019, 371, 313-324.	6.2	74
27	Density Function Theory Study of CO Adsorption on Fe3O4(111) Surface. Journal of Physical Chemistry B, 2006, 110, 13920-13925.	2.6	73
28	Formation of CHx Species from CO Dissociation on Double-Stepped Co(0001): Exploring Fischerâ^'Tropsch Mechanism. Journal of Physical Chemistry C, 2008, 112, 14108-14116.	3.1	71
29	Iridium atalyzed Hydrogenation of Carboxylic Acid Esters. ChemCatChem, 2014, 6, 2810-2814.	3.7	65
30	Manganese(I) atalyzed Enantioselective Hydrogenation of Ketones Using a Defined Chiral PNP Pincer Ligand. Angewandte Chemie, 2017, 129, 11389-11393.	2.0	64
31	Cobalt Pincer Complexes for Catalytic Reduction of Carboxylic Acid Esters. Chemistry - A European Journal, 2018, 24, 1046-1052.	3.3	63
32	A new strategy for the efficient synthesis of 2-methylfuran and Î ³ -butyrolactone. New Journal of Chemistry, 2003, 27, 208-210.	2.8	62
33	Density Functional Theory Study of CO Adsorption on Fe5C2(001), -(100), and -(110) Surfaces. Journal of Physical Chemistry B, 2004, 108, 9094-9104.	2.6	62
34	Density functional theory study of CO adsorption on the (100), (001) and (010) surfaces of Fe3C. Journal of Molecular Catalysis A, 2007, 269, 169-178.	4.8	60
35	Dissociative Hydrogen Adsorption on the Hexagonal Mo ₂ C Phase at High Coverage. Journal of Physical Chemistry C, 2014, 118, 8079-8089.	3.1	60
36	Coverage dependent water dissociative adsorption on Fe(110) from DFT computation. Physical Chemistry Chemical Physics, 2015, 17, 8811-8821.	2.8	60

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37	Homogeneous cobalt-catalyzed reductive amination for synthesis of functionalized primary amines. Nature Communications, 2019, 10, 5443.	12.8	57
38	Density functional theory study into the adsorption of CO2, H and CHx (x=0–3) as well as C2H4 on α-Mo2C(0001). Surface Science, 2006, 600, 2329-2337.	1.9	54
39	High Coverage CO Activation Mechanisms on Fe(100) from Computations. Journal of Physical Chemistry C, 2014, 118, 1095-1101.	3.1	54
40	Cobalt atalyzed Aqueous Dehydrogenation of Formic Acid. Chemistry - A European Journal, 2019, 25, 8459-8464.	3.3	54
41	Mechanisms and Energies of Water Gas Shift Reaction on Fe-, Co-, and Ni-Promoted MoS ₂ Catalysts. Journal of Physical Chemistry C, 2012, 116, 25368-25375.	3.1	53
42	Adsorption Equilibria of CO Coverage on β-Mo ₂ C Surfaces. Journal of Physical Chemistry C, 2012, 116, 6340-6348.	3.1	53
43	Fine‶uning the Reactivity and Stability by Systematic Ligand Variations in CpCo ^I Complexes as Catalysts for [2+2+2] Cycloaddition Reactions. Chemistry - A European Journal, 2013, 19, 2548-2554.	3.3	52
44	High Coverage CO Adsorption and Dissociation on the Orthorhombic Mo ₂ C(100) Surface. Journal of Physical Chemistry C, 2014, 118, 3162-3171.	3.1	52
45	Hydrogenation of Aliphatic and Aromatic Nitriles Using a Defined Ruthenium PNP Pincer Catalyst. European Journal of Organic Chemistry, 2015, 2015, 5944-5948.	2.4	51
46	Mechanisms of Mo2C(101)-Catalyzed Furfural Selective Hydrodeoxygenation to 2-Methylfuran from Computation. ACS Catalysis, 2016, 6, 6790-6803.	11.2	51
47	Determining surface structure and stability of ε-Fe2C, χ-Fe5C2, Î,-Fe3C and Fe4C phases under carburization environment from combined DFT and atomistic thermodynamic studies. Journal of Lithic Studies, 2015, 1, 44-60.	0.5	50
48	High coverage adsorption and co-adsorption of CO and H ₂ on Ru(0001) from DFT and thermodynamics. Physical Chemistry Chemical Physics, 2015, 17, 19446-19456.	2.8	50
49	Stability and Reactivity of Intermediates of Methanol Related Reactions and C–C Bond Formation over H-ZSM-5 Acidic Catalyst: A Computational Analysis. Journal of Physical Chemistry C, 2016, 120, 6075-6087.	3.1	50
50	CO2 dissociation on Ni(211). Surface Science, 2009, 603, 2991-2998.	1.9	47
51	High Coverage Water Aggregation and Dissociation on Fe(100): A Computational Analysis. Journal of Physical Chemistry C, 2014, 118, 26139-26154.	3.1	47
52	Structure–Activity–Selectivity Relationships in Propane Dehydrogenation over Rh/ZrO ₂ Catalysts. ACS Catalysis, 2020, 10, 6377-6388.	11.2	47
53	Structures and Energies of Coadsorbed CO and H2on Fe5C2(001), Fe5C2(110), and Fe5C2(100). Journal of Physical Chemistry B, 2005, 109, 10922-10935.	2.6	46
54	Unraveling the Origins of the Synergy Effect between ZrO ₂ and CrO <i>_x</i> in Supported CrZrO <i>_x</i> for Propene Formation in Nonoxidative Propane Dehydrogenation. ACS Catalysis, 2020, 10, 1575-1590.	11.2	46

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55	Molybdenum carbide catalysed hydrogen production from formic acid – A density functional theory study. Journal of Power Sources, 2014, 246, 548-555.	7.8	45
56	Density Functional Theory Study of Hydrogen Adsorption on Fe5C2(001), Fe5C2(110), and Fe5C2(100). Journal of Physical Chemistry B, 2005, 109, 833-844.	2.6	43
57	Methane formation mechanism in the initial methanol-to-olefins process catalyzed by SAPO-34. Catalysis Science and Technology, 2016, 6, 5526-5533.	4.1	43
58	Chemoselective semihydrogenation of alkynes catalyzed by manganese(<scp>i</scp>)-PNP pincer complexes. Catalysis Science and Technology, 2020, 10, 3994-4001.	4.1	43
59	On the Role of a Cobalt Promoter in a Water-Gas-Shift Reaction on Co-MoS ₂ . Journal of Physical Chemistry C, 2010, 114, 16669-16676.	3.1	42
60	Reactions of CO, H ₂ O, CO ₂ , and H ₂ on the Clean and Precovered Fe(110) Surfaces – A DFT Investigation. Journal of Physical Chemistry C, 2015, 119, 28377-28388.	3.1	40
61	The Structure and Possible Catalytic Sites of Mo3S9as a Model of Amorphous Molybdenum Trisulfide:Â A Computational Study. Journal of the American Chemical Society, 2001, 123, 7334-7339.	13.7	39
62	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. Applied Catalysis A: General, 2016, 524, 223-236.	4.3	39
63	Formation of Carbon Species on Ni(111):  Structure and Stability. Journal of Physical Chemistry C, 2007, 111, 10894-10903.	3.1	38
64	Hydrogen generation from formic acid decomposition on Ni(211), Pd(211) and Pt(211). Journal of Molecular Catalysis A, 2013, 379, 169-177.	4.8	38
65	A comparative computationally study about the defined m(II) pincer hydrogenation catalysts (m = fe, ru,)	ŢjĘTQq1	10.78431
66	Isomerization of Allylic Alcohols to Ketones Catalyzed by Wellâ€Defined Iron PNP Pincer Catalysts. Chemistry - A European Journal, 2018, 24, 4043-4049.	3.3	38
67	Zirconiumâ€Catalyzed Atomâ€Economical Synthesis of 1,1â€Diborylalkanes from Terminal and Internal Alkenes. Angewandte Chemie - International Edition, 2020, 59, 13608-13612.	13.8	38
68	Stable surface terminations of orthorhombic Mo2C catalysts and their CO activation mechanisms. Applied Catalysis A: General, 2014, 478, 146-156.	4.3	37
69	A Stable Manganese Pincer Catalyst for the Selective Dehydrogenation of Methanol. Angewandte Chemie, 2017, 129, 574-577.	2.0	37
70	Enantioselective Hydrogenation of Ketones using Different Metal Complexes with a Chiral PNP Pincer Ligand. Advanced Synthesis and Catalysis, 2019, 361, 1913-1920.	4.3	37
71	Adsorption and Dissociation of CO as Well as CH <i>_x</i> Coupling and Hydrogenation on the Clean and Oxygen Pre-covered Co(0001) Surfaces. Journal of Physical Chemistry C, 2008, 112, 3840-3848.	3.1	36
72	Aerobic Oxidative Homo- and Cross-Coupling of Amines Catalyzed by Phenazine Radical Cations. Journal of Organic Chemistry, 2018, 83, 13481-13490.	3.2	36

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73	Morphology and Reactivity Evolution of HCP and FCC Ru Nanoparticles under CO Atmosphere. ACS Catalysis, 2019, 9, 2768-2776.	11.2	36
74	Morphology control of K2O promoter on HÃǥg carbide (χ-Fe5C2) under Fischer–Tropsch synthesis condition. Catalysis Today, 2016, 261, 93-100.	4.4	35
75	Selective Baseâ€free Transfer Hydrogenation of α,βâ€Unsaturated Carbonyl Compounds using <i>i</i> PrOH or EtOH as Hydrogen Source. Chemistry - A European Journal, 2018, 24, 2725-2734.	3.3	34
76	A selective route to aryl-triphosphiranes and their titanocene-induced fragmentation. Chemical Science, 2019, 10, 7859-7867.	7.4	34
77	Density functional theory study of CO adsorption on the Fe(111) surface. Chemical Physics Letters, 2004, 400, 35-41.	2.6	33
78	Density Functional Theory Study of Triangular Molybdenum Sulfide Nanocluster and CO Adsorption on It. Journal of Physical Chemistry B, 2005, 109, 13704-13710.	2.6	33
79	Ligand―and Solventâ€Tuned Chemoselective Carbonylation of Bromoaryl Triflates. Chemistry - A European Journal, 2017, 23, 13369-13378.	3.3	32
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. Catalysis Science and Technology, 2018, 8, 3649-3665.	4.1	32
81	Tuning the Selectivity of Palladium Catalysts for Hydroformylation and Semihydrogenation of Alkynes: Experimental and Mechanistic Studies. ACS Catalysis, 2020, 10, 12167-12181.	11.2	31
82	Synthesis of Group 9 Metalâ€Olefin Complexes with Identical Ligand Frameworks and Comparison of their Catalytic Activity in [2+2+2] Cycloaddition and other Addition Reactions. Advanced Synthesis and Catalysis, 2011, 353, 3423-3433.	4.3	30
83	Energetics of Carbon deposition on Fe(100) and Fe(110) surfaces and subsurfaces. Surface Science, 2012, 606, 733-739.	1.9	30
84	Copper Promotion in CO Adsorption and Dissociation on the Fe(100) Surface. Journal of Physical Chemistry C, 2014, 118, 20472-20480.	3.1	30
85	Theoretical study about Mo ₂ C(101)-catalyzed hydrodeoxygenation of butyric acid to butane for biomass conversion. Catalysis Science and Technology, 2016, 6, 4923-4936.	4.1	30
86	Location, distribution and acidity of Al substitution in ZSM-5 with different Si/Al ratios – a periodic DFT computation. Catalysis Science and Technology, 2017, 7, 5694-5708.	4.1	30
87	General and selective synthesis of primary amines using Ni-based homogeneous catalysts. Chemical Science, 2020, 11, 4332-4339.	7.4	29
88	Coverage Dependent Water Dissociative Adsorption on the Clean and O-Precovered Fe(111) Surfaces. Journal of Physical Chemistry C, 2015, 119, 11714-11724.	3.1	27
89	1-Titanacyclobuta-2,3-diene – an elusive four-membered cyclic allene. Chemical Science, 2019, 10, 5319-5325.	7.4	26
90	A General and Highly Selective Palladiumâ€Catalyzed Hydroamidation of 1,3â€Diynes. Angewandte Chemie - International Edition, 2021, 60, 371-379.	13.8	26

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91	Efficient Palladiumâ€Catalyzed Carbonylation of 1,3â€Đienes: Selective Synthesis of Adipates and Other Aliphatic Diesters. Angewandte Chemie - International Edition, 2021, 60, 9527-9533.	13.8	26
92	CO Adsorption on Fe ₄ C (100), (110), and (111) Surfaces in Fischerâ^'Tropsch Synthesis. Journal of Physical Chemistry C, 2008, 112, 19018-19029.	3.1	25
93	Density functional theory study into H2O dissociative adsorption on the Fe5C2(010) surface. Applied Catalysis A: General, 2013, 468, 370-383.	4.3	25
94	Mechanisms of H ₂ O and CO ₂ Formation from Surface Oxygen Reduction on Co(0001). Journal of Physical Chemistry C, 2016, 120, 19265-19270.	3.1	25
95	Mechanism of Graphene Formation via Detonation Synthesis: AÂDFTB Nanoreactor Approach. Journal of Chemical Theory and Computation, 2019, 15, 3654-3665.	5.3	25
96	Surface morphology of orthorhombic Mo2C catalyst and high coverage hydrogen adsorption. Surface Science, 2016, 651, 195-202.	1.9	23
97	Structures of seven molybdenum surfaces and their coverage dependent hydrogen adsorption. Physical Chemistry Chemical Physics, 2016, 18, 6005-6012.	2.8	23
98	Reaction of CO, H ₂ 0, H ₂ and CO ₂ on the clean as well as O, OH and H precovered Fe(100) and Fe(111) surfaces. Catalysis Science and Technology, 2017, 7, 427-440.	4.1	22
99	Toward Green Acylation of (Hetero)arenes: Palladium-Catalyzed Carbonylation of Olefins to Ketones. ACS Central Science, 2018, 4, 30-38.	11.3	22
100	Kinetics and thermodynamics of polymethylbenzene formation over zeolites with different pore sizes for understanding the mechanisms of methanol to olefin conversion – a computational study. Catalysis Science and Technology, 2016, 6, 5326-5335.	4.1	21
101	Mechanistic Aspects of CO Activation and C–C Bond Formation on the Fe/C- and Fe-Terminated Fe ₃ C(010) Surfaces. ACS Catalysis, 2020, 10, 877-890.	11.2	21
102	Density functional theory study of H2 adsorption on the (100), (001) and (010) surfaces of Fe3C. Journal of Molecular Catalysis A, 2008, 292, 14-20.	4.8	20
103	Visiting the Limits between a Highly Strained 1â€Zirconacyclobutaâ€2,3â€diene and Chemically Robust Dizirconacyclooctatetraene. Chemistry - A European Journal, 2018, 24, 5667-5674.	3.3	20
104	Visiting CH4 formation and C1 + C1 couplings to tune CH4 selectivity on Fe surfaces. Journal of Catalysis, 2019, 372, 217-225.	6.2	19
105	Mechanisms of H- and OH-assisted CO activation as well as C–C coupling on the flat Co(0001) surface – revisited. Catalysis Science and Technology, 2016, 6, 8336-8343.	4.1	18
106	Determining the structures, acidity and adsorption properties of Al substituted HZSM-5. Physical Chemistry Chemical Physics, 2019, 21, 18758-18768.	2.8	18
107	Coverage dependent adsorption and co-adsorption of CO and H ₂ on the CdI ₂ -antitype metallic Mo ₂ C(001) surface. Physical Chemistry Chemical Physics, 2015, 17, 1907-1917.	2.8	17
108	The Facile Dissociation of Carbon–Oxygen Bonds in CO ₂ and CO on the Surface of LaCoSiH _{<i>x</i>} Intermetallic Compound. Angewandte Chemie - International Edition, 2021, 60, 25538-25545.	13.8	17

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109	Regiodivergent Reductive Opening of Epoxides by Catalytic Hydrogenation Promoted by a (Cyclopentadienone)iron Complex. ACS Catalysis, 2022, 12, 235-246.	11.2	17
110	Potassium promotion on CO hydrogenation on the χ-Fe 5 C 2 (111) surface with carbon vacancy. Applied Catalysis A: General, 2017, 534, 22-29.	4.3	16
111	About copper promotion in CH 4 formation from CO hydrogenation on Fe(100): A density functional theory study. Applied Catalysis A: General, 2017, 530, 83-92.	4.3	16
112	Benyzl Alcohol Dehydrogenative Coupling Catalyzed by Defined Mn and Re PNP Pincer Complexes – A Computational Mechanistic Study. European Journal of Inorganic Chemistry, 2018, 2018, 4643-4657.	2.0	16
113	About the Inversion Barriers of Pâ€Chirogenic Triarylâ€6ubstituted Phosphanes. European Journal of Organic Chemistry, 2018, 2018, 2984-2994.	2.4	16
114	Molybdenum carbide supported metal catalysts (M _n /Mo _x C; M = Co, Ni, Cu, Pd,) Tj ETQ 3029-3046.	<u>)</u> q0 0 0 rgl 4.1	BT /Overlock 15
115	Pyrimidopteridine-Catalyzed Hydroamination of Stilbenes with Primary Amines: A Dual Photoredox and Hydrogen Atom Transfer Catalyst. ACS Catalysis, 2021, 11, 4862-4869.	11.2	15
116	Acetylene Hydroformylation with HCo(CO)3 as Catalyst. A Density Functional Study. Organometallics, 2004, 23, 765-773.	2.3	14
117	Adsorption and energetics of H2O molecules and O atoms on the χ-Fe5C2 (111), (â^'411) and (001) surfaces from DFT. Applied Catalysis A: General, 2014, 475, 186-194.	4.3	14
118	Adsorption Structures and Energies of Cun Clusters on the Fe(110) and Fe3C(001) Surfaces. Journal of Physical Chemistry C, 2014, 118, 21963-21974.	3.1	14
119	Surface Morphology of Cu Adsorption on Different Terminations of the HÃǥg Iron Carbide (χ-Fe ₅ C ₂) Phase. Journal of Physical Chemistry C, 2015, 119, 7371-7385.	3.1	14
120	Redoxâ€Ðisproportionation of a Decamethyltitanocene(III) Isonitrile Alkynyl Complex. Chemistry - A European Journal, 2017, 23, 7891-7895.	3.3	14
121	Iron–PNPâ€Pincer atalyzed Transfer Dehydrogenation of Secondary Alcohols. ChemSusChem, 2019, 12, 2988-2993.	6.8	14
122	Manganese PNP-pincer catalyzed isomerization of allylic/homo-allylic alcohols to ketones – activity, selectivity, efficiency. Catalysis Science and Technology, 2019, 9, 6327-6334.	4.1	14
123	Hydrocracking of Fused Aromatic Hydrocarbons Catalyzed by Al-Substituted HZSM-5—A Case Study of 9,10-Dihydroanthracene. ACS Catalysis, 2020, 10, 9215-9226.	11.2	13
124	Zirconium-hydride-catalyzed site-selective hydroboration of amides for the synthesis of amines: Mechanism, scope, and application. Chinese Journal of Catalysis, 2021, 42, 2059-2067.	14.0	13
125	Bifunctional aliphatic PNP pincer catalysts for hydrogenation: Mechanisms and scope. Advances in Inorganic Chemistry, 2019, 73, 323-384.	1.0	13
126	How far away are iron carbide clusters from the bulk?. Physical Chemistry Chemical Physics, 2016, 18, 32944-32951.	2.8	12

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127	Mechanisms of CO Activation, Surface Oxygen Removal, Surface Carbon Hydrogenation, and C–C Coupling on the Stepped Fe(710) Surface from Computation. Journal of Physical Chemistry C, 2018, 122, 15505-15519.	3.1	12
128	Nitridation of the metallic Mo2C(001) surface from NH3 dissociative adsorption—A DFT study. Surface Science, 2019, 689, 121466.	1.9	12
129	Fe(II) Hydride Complexes for the Homogeneous Dehydrocoupling of Hydrazine Borane: Catalytic Mechanism via DFT Calculations and Detailed Spectroscopic Characterization. Organometallics, 2019, 38, 2714-2723.	2.3	12
130	High-Coverage CO Adsorption and Dissociation on Ir(111), Ir(100), and Ir(110) from Computations. Journal of Physical Chemistry C, 2019, 123, 6487-6495.	3.1	12
131	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.	2.8	11
132	Hydrogenation of phenyl-substituted Cî€,N, Cî€N,Cî€,C, Cî€C and Cî€O functional groups by Cr, Mo and W PNP pincer complexes – a DFT study. Catalysis Science and Technology, 2017, 7, 2298-2307.	4.1	11
133	Mechanism of coverage dependent CO adsorption and dissociation on the Mo(100) surface. Physical Chemistry Chemical Physics, 2017, 19, 2186-2192.	2.8	11
134	Successive Dissociation of CO, CH ₄ , C ₂ H ₆ , and CH ₃ CHO on Fe(110): Retrosynthetic Understanding of FTS Mechanism. Journal of Physical Chemistry C, 2018, 122, 28846-28855.	3.1	11
135	A recyclable CoGa intermetallic compound catalyst for the hydroformylation reaction. Journal of Catalysis, 2021, 404, 244-249.	6.2	11
136	Mechanistic insight into CO activation, methanation and C-C bond formation from coverage dependent CO hydrogenation on Fe(110). Surface Science, 2019, 689, 121456.	1.9	10
137	Synthesis of Phosphinines from Co ^{II} -Catalyzed [2+2+2] Cycloaddition Reactions. ACS Catalysis, 2021, 11, 13434-13444.	11.2	10
138	Titanocene Silylpropyne Complexes: Promising Intermediates en route to a Fourâ€Membered 1â€Metallacyclobutaâ€2,3â€diene?. Chemistry - A European Journal, 2017, 23, 14158-14162.	3.3	9
139	Molecular or dissociative adsorption of water on clean and oxygen pre-covered Ni(111) surfaces. Catalysis Science and Technology, 2019, 9, 199-212.	4.1	9
140	CO Self-Promoting Hydrogenation on CO-Saturated Ru(0001): A New Theoretical Insight into How H ₂ Participates in CO Activation. Journal of Physical Chemistry C, 2019, 123, 6508-6515.	3.1	9
141	Mechanisms of Co ^{II} and Acid Jointly Catalyzed Domino Conversion of CO ₂ , H ₂ , and CH ₃ OH to Dialkoxymethane: A DFT Study. ACS Catalysis, 2021, 11, 6908-6919.	11.2	9
142	Adsorption and dissociation of H 2 O and CO 2 on the clean and O-pre-covered Ru(0001) surface. Applied Catalysis A: General, 2017, 540, 31-36.	4.3	8
143	Exploring the activities of vanadium, niobium, and tantalumÂPNP pincer complexes in the hydrogenation of phenyl-substituted CN, CN, CC, CC, and CO functional groups. Comptes Rendus Chimie, 2018, 21, 303-309.	0.5	8
144	Coverage dependent structure and energy of water dissociative adsorption on clean and O-pre-covered Ni (100) and Ni(110). Catalysis Science and Technology, 2019, 9, 4725-4743.	4.1	8

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145	Hydrogen Adsorption on Ir(111), Ir(100) and Ir(110)—Surface and Coverage Dependence. Surface Science, 2020, 692, 121514.	1.9	8
146	Versatile Fluorinated Building Blocks by Stereoselective (Per)fluoroalkenylation of Ketones. European Journal of Organic Chemistry, 2020, 2020, 70-81.	2.4	8
147	Dehydropolymerisation of methylamine borane using highly active rhodium(<scp>iii</scp>) bis(thiophosphinite) pincer complexes: catalytic and mechanistic insights. Catalysis Science and Technology, 2021, 11, 3514-3526.	4.1	8
148	Cycloaddition mechanisms of CO ₂ and epoxide catalyzed by salophen – an organocatalyst free from metals and halides. Catalysis Science and Technology, 2021, 11, 2529-2539.	4.1	8
149	Zirconiumâ€Catalyzed Atomâ€Economical Synthesis of 1,1â€Diborylalkanes from Terminal and Internal Alkenes. Angewandte Chemie, 2020, 132, 13710-13714.	2.0	7
150	A General and Highly Selective Palladium atalyzed Hydroamidation of 1,3â€Diynes. Angewandte Chemie, 2021, 133, 375-383.	2.0	7
151	Revisiting Oxygen Adsorption on Ir(100). Journal of Physical Chemistry C, 2022, 126, 10035-10044.	3.1	7
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