Thomas R Cundari

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Olefin oligomerization by zirconium boratabenzene catalysts. Journal of Organometallic Chemistry, 2022, 962, 122268.	0.8	0
2	Electrocatalytic Reduction of Nitrogen to Ammonia: the Roles of Lattice O and N in Reduction at Vanadium Oxynitride Surfaces. ACS Applied Materials & Interfaces, 2022, 14, 531-542.	4.0	14
3	Copper(III) Metallacyclopentadienes via Zirconocene Transfer and Reductive Elimination to an Isolable Phenanthrocyclobutadiene. Journal of the American Chemical Society, 2022, 144, 9853-9858.	6.6	8
4	Enantioselective C–H Amination Catalyzed by Nickel Iminyl Complexes Supported by Anionic Bisoxazoline (BOX) Ligands. Journal of the American Chemical Society, 2021, 143, 817-829.	6.6	52
5	Thermochemistry of Tungsten—3p Elements for Density Functional Theory, Caveat Lector!. Journal of Physical Chemistry A, 2021, 125, 681-690.	1.1	0
6	Communication—Electrochemical Reduction of N ₂ to Ammonia by Vanadium Oxide Thin Films at Neutral pH: Oxophilicity and the NRR Reaction. Journal of the Electrochemical Society, 2021, 168, 026504.	1.3	10
7	A Dicopper Nitrenoid by Oxidation of a CulCul Core: Synthesis, Electronic Structure, and Reactivity. Journal of the American Chemical Society, 2021, 143, 7135-7143.	6.6	5
8	Bifunctional activation of methane by bioinspired transition metal complexes. A simple methane protease model. Computational and Theoretical Chemistry, 2021, 1198, 113180.	1.1	0
9	Is the Electrophilicity of the Metal Nitrene the Sole Predictor of Metal-Mediated Nitrene Transfer to Olefins? Secondary Contributing Factors as Revealed by a Library of High-Spin Co(II) Reagents. Organometallics, 2021, 40, 1974-1996.	1.1	8
10	DFT and TDDFT Study of the Reaction Pathway for Double Intramolecular C–H Activation and Functionalization by Iron, Cobalt, and Nickel–Nitridyl Complexes. Inorganic Chemistry, 2021, 60, 12299-12308.	1.9	5
11	Investigating the non-classical M-H2 bonding in OsClH3(PPh3)3. Journal of Alloys and Compounds, 2021, 894, 162445.	2.8	1
12	Reversible C–C Bond Formation, Halide Abstraction, and Electromers in Complexes of Iron Containing Redox-Noninnocent Pyridine-imine Ligands. Inorganic Chemistry, 2021, 60, 18662-18673.	1.9	6
13	Synthesis, characterization, DFT calculations, and reactivity study of a nitrido-bridged dimeric vanadium(<scp>iv</scp>) complex. Dalton Transactions, 2020, 49, 1200-1206.	1.6	6
14	A Pd ^{III} Sulfate Dimer Initiates Rapid Methane Monofunctionalization by H Atom Abstraction. ACS Catalysis, 2020, 10, 14782-14792.	5.5	15
15	Computational Determination of p <i>K</i> _a (C–H) in 3d Transition Metal-Methyl Complexes. Organometallics, 2020, 39, 2803-2812.	1.1	3
16	Computational investigations of NHC-backbone configurations for applications in organocatalytic umpolung reactions. Organic and Biomolecular Chemistry, 2020, 18, 7437-7447.	1.5	3
17	Au ₃ -to-Ag ₃ coordinate-covalent bonding and other supramolecular interactions with covalent bonding strength. Chemical Science, 2020, 11, 11179-11188.	3.7	12
18	Metal and Ligand Effects on Coordinated Methane p <i>K</i> _a : Direct Correlation with the Methane Activation Barrier. Journal of Physical Chemistry A, 2020, 124, 7283-7289.	1.1	4

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19	Density Functional Study of Methane Activation by Frustrated Lewis Pairs with Group 13 Trihalides and Group 15 Pentahalides and a Machine Learning Analysis of Their Barrier Heights. Journal of Chemical Information and Modeling, 2020, 60, 4958-4966.	2.5	10
20	A family of structural and functional models for the active site of a unique dioxygenase: Acireductone dioxygenase (ARD). Journal of Inorganic Biochemistry, 2020, 212, 111253.	1.5	1
21	DFT Calculations Investigate Competing Pathways to Form Dimeric Neopentylpalladium(II) Amido Complexes: The Critical Importance of Dispersion. Journal of Physical Chemistry A, 2020, 124, 8798-8805.	1.1	0
22	Computational Assessment of Counterion Effect of Borate Anions on Ethylene Polymerization by Zirconocene and Hafnocene Catalysts. Organometallics, 2020, 39, 2068-2079.	1.1	18
23	Computational Study of Methane C–H Activation by Main Group and Mixed Main Group–Transition Metal Complexes. Molecules, 2020, 25, 2794.	1.7	2
24	Unrealized concepts of masked alkylidenes in (PNP)FeXY systems and alternative approaches to LnXmFe(IV)=CHR. Polyhedron, 2020, 181, 114460.	1.0	6
25	Formal oxo- and aza-[3 + 2] reactions of α-enaminones and quinones: a double divergent process and the roles of chiral phosphoric acid and molecular sieves. Chemical Science, 2020, 11, 9386-9394.	3.7	19
26	Revealing a Decisive Role for Secondary Coordination Sphere Nucleophiles on Methane Activation. Journal of the American Chemical Society, 2020, 142, 3125-3131.	6.6	7
27	Chemical and electronic structures of cobalt oxynitride films deposited by NH ₃ <i>vs.</i> N ₂ plasma: theory <i>vs.</i> experiment. Physical Chemistry Chemical Physics, 2020, 22, 24640-24648.	1.3	6
28	Nitrene Insertion into Aromatic and Benzylic Câ^'H Bonds Catalyzed by Copper Complexes of Fluorinated Bis―and Tris(pyrazolyl)borates. ChemCatChem, 2019, 11, 4966-4973.	1.8	7
29	Asymmetric Ring-Opening of Donor–Acceptor Cyclopropanes with Primary Arylamines Catalyzed by a Chiral Heterobimetallic Catalyst. ACS Catalysis, 2019, 9, 8285-8293.	5.5	40
30	Experimental and Computational Investigation of the Aerobic Oxidation of a Late Transition Metal-Hydride. Journal of the American Chemical Society, 2019, 141, 10830-10843.	6.6	14
31	Importance of Nitrogen–Hydrogen Bond p <i>K</i> _a in the Catalytic Coupling of Alkenes and Amines by Amidate Tantalum Complexes: A Computational Study. Journal of Physical Chemistry A, 2019, 123, 8595-8606.	1.1	4
32	Computational Mechanistic Study of Electro-Oxidation of Ammonia to N ₂ by Homogenous Ruthenium and Iron Complexes. Journal of Physical Chemistry A, 2019, 123, 7973-7982.	1.1	20
33	Effect of Appended S-Block Metal Ion Crown Ethers on Redox Properties and Catalytic Activity of Mn–Nitride Schiff Base Complexes: Methane Activation. Inorganic Chemistry, 2019, 58, 12254-12263.	1.9	9
34	DFT and QSAR Studies of Ethylene Polymerization by Zirconocene Catalysts. ACS Catalysis, 2019, 9, 9339-9349.	5.5	25
35	Computational Analysis of Proton-Coupled Electron Transfer in Hydrotris(triazolyl)borate Mid–Late 3d and 4d Transition Metal Complexes. Organometallics, 2019, 38, 3521-3531.	1.1	3
36	Copperâ€Catalyzed C(sp ³)â^'H Amidation: Sterically Driven Primary and Secondary Câ^'H Siteâ€Selectivity. Angewandte Chemie - International Edition, 2019, 58, 3421-3425.	7.2	61

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37	Copperâ€Catalyzed C(sp ³)â^'H Amidation: Sterically Driven Primary and Secondary Câ^'H Siteâ€Selectivity. Angewandte Chemie, 2019, 131, 3459-3463.	1.6	15
38	Direct Anti-Markovnikov Addition of Water to Olefin To Synthesize Primary Alcohols: A Theoretical Study. Journal of Physical Chemistry A, 2019, 123, 958-965.	1.1	11
39	Tungsten–Ligand Bond Strengths for 2p Elements Including σ- and π-Bond Strength Components, A Density Functional Theory and ab Initio Study. Journal of Physical Chemistry A, 2019, 123, 7940-7949.	1.1	2
40	Intramolecular C–H Functionalization Followed by a [2 _σ + 2 _π] Addition via an Intermediate Nickel–Nitridyl Complex. Inorganic Chemistry, 2019, 58, 7131-7135.	1.9	23
41	Oxidative Additions to Ti(IV) in [(dadi) ^{4–}]Ti ^{IV} (THF) Involve Carbon–Carbon Bond Formation and Redox-Noninnocent Behavior. Organometallics, 2019, 38, 1502-1515.	1.1	7
42	Computational Study of 3d Metals and Their Influence on the Acidity of Methane C–H Bonds. ACS Omega, 2019, 4, 20159-20163.	1.6	11
43	Genetic Mutations in the S-loop of Human Glutathione Synthetase: Links Between Substrate Binding, Active Site Structure and Allostery. Computational and Structural Biotechnology Journal, 2019, 17, 31-38.	1.9	7
44	Carbon(sp3)-nitrogen bond-forming reductive elimination from phosphine-ligated alkylpalladium(II) amide complexes: A DFT study. Tetrahedron, 2019, 75, 137-143.	1.0	5
45	Cooperative Metal + Ligand Oxidative Addition and \tilde{f} -Bond Metathesis: A DFT Study. Organometallics, 2018, 37, 309-313.	1.1	5
46	DFT study of substituent effects in the hydroxylation of methane and toluene mediated by an ethylbenzene dehydrogenase active site model. Journal of Organometallic Chemistry, 2018, 864, 44-49.	0.8	9
47	Dispersion forces play a role in (Me ₂ IPr)Fe(î€NAd)R ₂ (Ad = adamantyl; R =) Tj ETQq1 1 Transactions, 2018, 47, 6025-6030.	0.784314 1.6	rgBT /Overlo 15
48	Reductive Elimination from Phosphine-Ligated Alkylpalladium(II) Amido Complexes To Form sp ³ Carbon–Nitrogen Bonds. Journal of the American Chemical Society, 2018, 140, 4893-4904.	6.6	21
49	H ₂ addition to (^{Me4} PCP)Ir(CO): studies of the isomerization mechanism. Dalton Transactions, 2018, 47, 16119-16125.	1.6	9
50	Reductive Elimination to Form C(sp ³)–N Bonds from Palladium(II) Primary Alkyl Complexes. Organometallics, 2018, 37, 3243-3247.	1.1	12
51	Synthesis, Photophysical Properties, and Computational Analysis of Di- and Tetranuclear Alkyne Complexes of Copper(I) Supported by a Highly Fluorinated Pyrazolate. Organometallics, 2018, 37, 4105-4118.	1.1	22
52	C–H Activation of Methane by Nickel–Methoxide Complexes: A Density Functional Theory Study. Organometallics, 2018, 37, 3111-3121.	1.1	12
53	Computational study of acetylene hydration by bio-inspired group six catalyst models. Polyhedron, 2018, 154, 114-122.	1.0	9
54	Complexes of [(dadi)Ti(L/X)] ^{<i>m</i>} That Reveal Redox Non-Innocence and a Stepwise Carbene Insertion into a Carbon–Carbon Bond. Organometallics, 2018, 37, 3488-3501.	1.1	13

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55	Comparative Nitrene-Transfer Chemistry to Olefinic Substrates Mediated by a Library of Anionic Mn(II) Triphenylamido-Amine Reagents and M(II) Congeners (M = Fe, Co, Ni) Favoring Aromatic over Aliphatic Alkenes. ACS Catalysis, 2018, 8, 9183-9206.	5.5	36
56	Computational Study of Methane C–H Activation by Diiminopyridine Nitride/Nitridyl Complexes of 3d Transition Metals and Main-Group Elements. Inorganic Chemistry, 2018, 57, 6807-6815.	1.9	19
57	Mechanistic Studies of Single-Step Styrene Production Using a Rhodium(I) Catalyst. Journal of the American Chemical Society, 2017, 139, 1485-1498.	6.6	36
58	5d Metal(IV) Imide Complexes. The Impact (or Lack Thereof) of d-Orbital Occupation on Methane Activation and Functionalization. Inorganic Chemistry, 2017, 56, 1823-1829.	1.9	7
59	Redox non-innocence permits catalytic nitrene carbonylation by (dadi)Tiî€NAd (Ad = adamantyl). Chemical Science, 2017, 8, 3410-3418.	3.7	39
60	Elusive Terminal Copper Arylnitrene Intermediates. Angewandte Chemie - International Edition, 2017, 56, 6426-6430.	7.2	45
61	An Uncanny Dehydrogenation Mechanism: Polar Bond Control over Stepwise or Concerted Transition States. Inorganic Chemistry, 2017, 56, 5519-5524.	1.9	23
62	Three-Coordinate Copper(II) Aryls: Key Intermediates in C–O Bond Formation. Journal of the American Chemical Society, 2017, 139, 9112-9115.	6.6	34
63	Elusive Terminal Copper Arylnitrene Intermediates. Angewandte Chemie, 2017, 129, 6526-6530.	1.6	11
64	Computational Study of Methane C–H Activation by Earth-Abundant Metal Amide/Aminyl Complexes. Organometallics, 2017, 36, 3987-3994.	1.1	5
65	A DFT Survey of the Effects of dâ€Electron Count and Metal Identity on the Activation and Functionalization of Câ^'H Bonds for Mid to Late Transition Metals. Israel Journal of Chemistry, 2017, 57, 1023-1031.	1.0	7
66	Control of C–H Bond Activation by Mo-Oxo Complexes: p <i>K</i> _a or Bond Dissociation Free Energy (BDFE)?. Inorganic Chemistry, 2017, 56, 12319-12327.	1.9	18
67	Heterobimetallic Silver–Iron Complexes Involving Fe(CO)5 Ligands. Journal of the American Chemical Society, 2017, 139, 14292-14301.	6.6	22
68	Methane C–H Activation via 3d Metal Methoxide Complexes with Potentially Redox-Noninnocent Pincer Ligands: A Density Functional Theory Study. Inorganic Chemistry, 2017, 56, 12282-12290.	1.9	17
69	Rare Examples of Fe(IV) Alkyl-Imide Migratory Insertions: Impact of Fe—C Covalency in (Me ₂ IPr)Fe(â•NAd)R ₂ (R = ^{neo} Pe, 1-nor). Journal of the American Chemical Society, 2017, 139, 12145-12148.	6.6	42
70	Heterolytic H–H and H–B Bond Cleavage Reactions of {(IPr)Ni(μ-S)} ₂ . Inorganic Chemistry, 2017, 56, 9922-9930.	1.9	12
71	Computational Analysis of Transition Metal-Terminal Boride Complexes. Journal of Physical Chemistry A, 2017, 121, 9358-9368.	1.1	6
72	Oxidative Hydrophenylation of Ethylene Using a Cationic Ru(II) Catalyst: Styrene Production with Ethylene as the Oxidant. Israel Journal of Chemistry, 2017, 57, 1037-1046.	1.0	15

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73	Toward a More Rational Design of the Direct Synthesis of Aniline: A Density Functional Theory Study. ACS Omega, 2017, 2, 3214-3227.	1.6	1
74	Comparison of PdII vs RhI-catalyzed catalytic cycle for single step styrene production. Computational and Theoretical Chemistry, 2017, 1115, 313-322.	1.1	3
75	Effect of Ancillary Ligands (A) on Oxidative Addition of CH ₄ to Rhenium(III) Complexes: A = B, Al, CH, SiH, N, and P Using MP2, CCSD(T), and MCSCF Methods. Journal of Physical Chemistry A, 2017, 121, 5341-5351.	1.1	3
76	Effect of Ancillary Ligands on Oxidative Addition of CH ₄ to Ta(III) Complexes Ta(OC ₂ H ₄) ₃ A (A = B, Al, CH, SiH, N, P): A Density Functional Theory Study. Organometallics, 2017, 36, 64-73.	1.1	5
77	Methane Manifesto: A Theorist's Perspective on Catalytic Light Alkane Functionalization. Comments on Inorganic Chemistry, 2017, 37, 219-237.	3.0	6
78	Reactivity of Hydrogen on and in Nanostructured Molybdenum Nitride: Crotonaldehyde Hydrogenation. ACS Catalysis, 2016, 6, 5797-5806.	5.5	44
79	Aqueous Hydricity from Calculations of Reduction Potential and Acidity in Water. Journal of Physical Chemistry B, 2016, 120, 12911-12919.	1.2	16
80	The Mechanism of N–N Double Bond Cleavage by an Iron(II) Hydride Complex. Journal of the American Chemical Society, 2016, 138, 12112-12123.	6.6	34
81	N-Heterocyclic Carbene Based Nickel and Palladium Complexes: A DFT Comparison of the Mizoroki–Heck Catalytic Cycles. Organometallics, 2016, 35, 3170-3181.	1.1	48
82	Transition Metal Mediated C–H Activation and Functionalization: The Role of Poly(pyrazolyl)borate and Poly(pyrazolyl)alkane Ligands. European Journal of Inorganic Chemistry, 2016, 2016, 2296-2311.	1.0	22
83	A Dinitrogen Dicopper(I) Complex via a Mixedâ€Valence Dicopper Hydride. Angewandte Chemie - International Edition, 2016, 55, 9927-9931.	7.2	38
84	A Dinitrogen Dicopper(I) Complex via a Mixedâ€Valence Dicopper Hydride. Angewandte Chemie, 2016, 128, 10081-10085.	1.6	10
85	Solvent-Dependent Thermochemistry of an Iridium/Ruthenium H ₂ Evolution Catalyst. Inorganic Chemistry, 2016, 55, 12042-12051.	1.9	18
86	Goldâ€Mediated Isomerization of ÂCyclooctyne to Ring Fused Olefinic Bicycles. European Journal of Inorganic Chemistry, 2016, 2016, 995-1001.	1.0	6
87	Theoretical Study of Two Possible Side Reactions for Reductive Functionalization of 3d Metal–Methyl Complexes by Hydroxide Ion: Deprotonation and Metal–Methyl Bond Dissociation. Organometallics, 2016, 35, 950-958.	1.1	13
88	Iron-Catalyzed Homogeneous Hydrogenation of Alkenes under Mild Conditions by a Stepwise, Bifunctional Mechanism. ACS Catalysis, 2016, 6, 2127-2135.	5.5	108
89	Reductive functionalization of 3d metal–methyl complexes: The greater importance of ligand than metal. Computational and Theoretical Chemistry, 2015, 1069, 86-95.	1.1	8
90	Nitrene Insertion into CC and CH Bonds of Diamide Diimine Ligands Ligated to Chromium and Iron. Angewandte Chemie - International Edition, 2015, 54, 14407-14411.	7.2	37

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91	Methane Is the Best Substrate for C(sp ³)–H Activation with Cp*(PMe ₃)Co(Me)(OTf): A Density Functional Theory Study. Organometallics, 2015, 34, 4032-4038.	1.1	9
92	First-Row Transition Metal and Lithium Pyridine-ene-amide Complexes Exhibiting N- and C-Isomers and Ligand-Based Activation of Benzylic Câ€ ⁴ H Bonds. Organometallics, 2015, 34, 4656-4668.	1.1	18
93	A rhodium catalyst for single-step styrene production from benzene and ethylene. Science, 2015, 348, 421-424.	6.0	94
94	Oxyfunctionalization with Cp*Ir ^{III} (NHC)(Me)(Cl) with O ₂ : Identification of a Rare Bimetallic Ir ^{IV} μ-Oxo Intermediate. Journal of the American Chemical Society, 2015, 137, 3574-3584.	6.6	44
95	Effect of Ligand Connectivity and Charge State on the Amination of C–H Bonds by Copper Amide Complexes. Organometallics, 2015, 34, 5045-5050.	1.1	2
96	Zinc(II)-Mediated Carbene Insertion into C–H Bonds in Alkanes. Inorganic Chemistry, 2015, 54, 11043-11045.	1.9	24
97	DFT Modeling of the Aldehyde–Water Shift Reaction with a Cationic Cp*Ir Catalyst. ACS Catalysis, 2015, 5, 225-232.	5.5	19
98	Understanding the Effect of Ancillary Ligands on Concerted Metalation–Deprotonation by (^{dm} Phebox)Ir(OAc) ₂ (H ₂ O) Complexes: A DFT Study. Organometallics, 2014, 33, 6413-6419.	1.1	33
99	Impact of divalent metal cations on the catalysis of peptide bonds: a DFT study. Journal of Coordination Chemistry, 2014, 67, 3920-3931.	0.8	2
100	Theoretical Study of Reductive Functionalization of Methyl Ligands of Group 9 Complexes Supported by Two Bipyridyl Ligands: A Key Step in Catalytic Hydrocarbon Functionalization. Organometallics, 2014, 33, 1936-1944.	1.1	15
101	Iron Complexes Derived from {nacnac-(CH2py)2}â^' and {nacnac-(CH2py)(CHpy)}n Ligands: Stabilization of Iron(II) via Redox Noninnocence. Inorganic Chemistry, 2014, 53, 4459-4474.	1.9	20
102	Disparate reactivity from isomeric {Me 2 C(CH 2 N CHpy) 2 } and {Me 2 C(CH NCH 2 py) 2 } chelates in iron complexation. Polyhedron, 2014, 84, 182-191.	1.0	8
103	Experimental and Computational Studies of the Ruthenium-Catalyzed Hydrosilylation of Alkynes: Mechanistic Insights into the Regio- and Stereoselective Formation of Vinylsilanes. Organometallics, 2014, 33, 6937-6944.	1.1	58
104	The Curious Case of Mesityl Azide and Its Reactivity with bpyNiEt ₂ . Inorganic Chemistry, 2014, 53, 11633-11639.	1.9	3
105	Reductive functionalization of a rhodium(iii)–methyl bond by electronic modification of the supporting ligand. Dalton Transactions, 2014, 43, 8273.	1.6	26
106	Hydrophenylation of ethylene using a cationic Ru(<scp>ii</scp>) catalyst: comparison to a neutral Ru(<scp>ii</scp>) catalyst. Chemical Science, 2014, 5, 4355-4366.	3.7	37
107	A Versatile Tripodal Cu(I) Reagent for C–N Bond Construction via Nitrene-Transfer Chemistry: Catalytic Perspectives and Mechanistic Insights on C–H Aminations/Amidinations and Olefin Aziridinations. Journal of the American Chemical Society, 2014, 136, 11362-11381.	6.6	115
108	Copper(II) Anilides in sp ³ C-H Amination. Journal of the American Chemical Society, 2014, 136, 10930-10940.	6.6	99

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109	Oxygen Atom Insertion into Iron(II) Phenyl and Methyl Bonds: A Key Step for Catalytic Hydrocarbon Functionalization. Organometallics, 2014, 33, 5597-5605.	1.1	13
110	Iridium, Rhodium, and Ruthenium Catalysts for the "Aldehyde–Water Shift―Reaction. ACS Catalysis, 2014, 4, 3034-3038.	5.5	50
111	Iron and Chromium Complexes Containing Tridentate Chelates Based on Nacnac and Imino- and Methyl-Pyridine Components: Triggering C—X Bond Formation. Inorganic Chemistry, 2014, 53, 7467-7484.	1.9	39
112	Molecular and Electronic Structure of Cyclic Trinuclear Gold(I) Carbeniate Complexes: Insights for Structure/Luminescence/Conductivity Relationships. Inorganic Chemistry, 2014, 53, 7485-7499.	1.9	32
113	Pt ^{II} -Catalyzed Hydrophenylation of α-Olefins: Variation of Linear/Branched Products as a Function of Ligand Donor Ability. ACS Catalysis, 2014, 4, 1607-1615.	5.5	36
114	Impact of d-Orbital Occupation on Metal–Carbon Bond Functionalization. Inorganic Chemistry, 2014, 53, 7789-7798.	1.9	12
115	Chemical bonding involving d-orbitals. Chemical Communications, 2013, 49, 9521.	2.2	7
116	Activation of carbon–hydrogen bonds and dihydrogen by 1,2-CH-addition across metal–heteroatom bonds. Dalton Transactions, 2013, 42, 16646.	1.6	76
117	Methane C–H Bond Activation by "Naked―Alkali Metal Imidyl and Alkaline Earth Metal Imide Complexes. The Role of Ligand Spin and Nucleophilicity. Journal of Physical Chemistry A, 2013, 117, 9245-9251.	1.1	8
118	Spin Crossover during β-Hydride Elimination in High-Spin Iron(II)– and Cobalt(II)–Alkyl Complexes. Organometallics, 2013, 32, 4741-4751.	1.1	63
119	Computational study of carbon–hydrogen bond deprotonation by alkali metal superbases. Computational and Theoretical Chemistry, 2013, 1019, 85-93.	1.1	19
120	Complete methane-to-methanol catalytic cycle: A DFT study of oxygen atom transfer from N2O to late-row (MNi, Cu, Zn) β-diketiminate CH activation catalysts. Polyhedron, 2013, 52, 945-956.	1.0	20
121	Selective Extraction of N ₂ from Air by Diarylimine Iron Complexes. Journal of the American Chemical Society, 2013, 135, 3511-3527.	6.6	17
122	Mechanism of Hydrogenolysis of an Iridium–Methyl Bond: Evidence for a Methane Complex Intermediate. Journal of the American Chemical Society, 2013, 135, 1217-1220.	6.6	33
123	C–C Bond Formation and Related Reactions at the CNC Backbone in (smif)FeX (smif =) Tj ETQq1 1 0.784314 rg Hydrogenations and Alkyne Trimerization (X = N(TMS)2, dpma = (Di-(2-pyridyl-methyl)-amide)). Inorganic	gBT /Over 1.9	lock 10 Tf 50 51
124	Chemistry, 2013, 52, 3295-3312. Use of [SbF ₆] ^{â^'} to Isolate Cationic Copper and Silver Adducts with More than One Ethylene on the Metal Center. Organometallics, 2013, 32, 3034-3041.	1.1	36
125	Periodic Trends in 3d Metal Mediated CO2 Activation. ACS Symposium Series, 2013, , 67-88.	0.5	3
126	Electronic and Charge-Transport Properties of the Au ₃ (CH ₃ Nâ•COCH ₃) ₃ Crystal: A Density Functional Theory Study. Journal of Physical Chemistry Letters, 2013, 4, 2186-2189.	2.1	15

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127	C–H Activation by Multiply Bonded Complexes with Potentially Noninnocent Ligands: A Computational Study. Inorganic Chemistry, 2013, 52, 8106-8113.	1.9	23
128	Pt ^{II} -Catalyzed Ethylene Hydrophenylation: Influence of Dipyridyl Chelate Ring Size on Catalyst Activity and Longevity. ACS Catalysis, 2013, 3, 1165-1171.	5.5	45
129	Cooperative Carbon Capture Capabilities in Multivariate MOFs Decorated with Amino Acid Side Chains: A Computational Study. Journal of Physical Chemistry C, 2013, 117, 14717-14722.	1.5	13
130	Lewis Bases Trigger Intramolecular CH-Bond Activation: (tBu3SiO)2W=NtBu [rlhar2] (tBu3SiO)(κO,IºC-tBu2SiOCMe2CH2)HW=NtBu. European Journal of Inorganic Chemistry, 2013, 2013, 4056-4067.	1.0	6
131	Pt ^{II} and Rh ^{III} Hydrocarbyl Complexes Bearing Coordinated Oxygen Atom Delivery Reagents. European Journal of Inorganic Chemistry, 2013, 2013, 4515-4525.	1.0	9
132	Carbon–Oxygen Bond Formation via Organometallic Baeyer–Villiger Transformations: A Computational Study on the Impact of Metal Identity. Journal of the American Chemical Society, 2012, 134, 2332-2339.	6.6	44
133	Reductive Elimination of Alkylamines from Low-Valent, Alkylpalladium(II) Amido Complexes. Journal of the American Chemical Society, 2012, 134, 15281-15284.	6.6	28
134	Carbon Dioxide Migration Pathways in Proteins. Journal of Physical Chemistry Letters, 2012, 3, 830-833.	2.1	9
135	Synthetic Approaches to (smif) ₂ Ti (smif = 1,3-di-(2-pyridyl)-2-azaallyl) Reveal Redox Non-Innocence and C–C Bond-Formation. Inorganic Chemistry, 2012, 51, 8177-8186.	1.9	36
136	C–H Bond Activation of Methane by Pt ^{II} –N-Heterocyclic Carbene Complexes. The Importance of Having the Ligands in the Right Place at the Right Time. Organometallics, 2012, 31, 1042-1048.	1.1	22
137	C–H Functionalization Reactivity of a Nickel–Imide. Journal of the American Chemical Society, 2012, 134, 10114-10121.	6.6	122
138	Mechanistic Study of Oxy Insertion into Nickel–Carbon Bonds with Nitrous Oxide. Organometallics, 2012, 31, 4998-5004.	1.1	28
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