T Brent Gunnoe

List of Publications by Year
in descending order

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153 papers	5,848 citations	61945 43 h-index	98753 67 g-index
162 all docs	162 docs citations	162 times ranked	4322 citing authors

#	Article	IF	Citations
1	Ru(II) Catalysts Supported by Hydridotris(pyrazolyl)borate for the Hydroarylation of Olefins: Reaction Scope, Mechanistic Studies, and Guides for the Development of Improved Catalysts. Accounts of Chemical Research, 2009, 42, 585-597.	7.6	189
2	Oxygen evolution reaction over catalytic single-site Co in a well-defined brookite TiO2 nanorod surface. Nature Catalysis, 2021, 4, 36-45.	16.1	189
3	Electrochemical Reduction of Carbon Dioxide to Syngas and Formate at Dendritic Copperâ€“Indium Electrocatalysts. ACS Catalysis, 2017, 7, 5381-5390.	5.5	166
4	Addition of Arenes to Ethylene and Propene Catalyzed by Ruthenium. Journal of the American Chemical Society, 2003, 125, 7506-7507.	6.6	141
5	Addition of Nâ˜'H and Oâ˜'H Bonds of Amines and Alcohols to Electron-Deficient Olefins Catalyzed by Monomeric Copper(I) Systems:â€‰ Reaction Scope, Mechanistic Details, and Comparison of Catalyst Efficiency. Organometallics, 2007, 26, 1483-1493.	1.1	131
6	Comparison of the Relative Electron-Donating Abilities of Hydridotris(pyrazolyl)borate and Cyclopentadienyl Ligands:Â Different Interactions with Different Transition Metals. Organometallics, 2000, 19, 2428-2432.	1.1	128
7	Experimental and Computational Studies of Ruthenium(II)-Catalyzed Addition of Arene Câ˜'H Bonds to Olefins. Organometallics, 2004, 23, 5007-5020.	1.1	123
8	Catalytic Oxyâ€Functionalization of Methane and Other Hydrocarbons: Fundamental Advancements and New Strategies. ChemSusChem, 2011, 4, 37-49.	3.6	113
9	Evidence for the Net Addition of Arene Câ˜'H Bonds across a Ru(II)â˜'Hydroxide Bond. Journal of the American Chemical Society, 2005, 127, 14174-14175.	6.6	112
10	Transition metal catalyzed hydroarylation of olefins using unactivated substrates: Recent developments and challenges. Journal of Organometallic Chemistry, 2011, 696, 305-315.	0.8	110
11	Synthesis and Reactivity of a Coordinatively Unsaturated Ruthenium(II) Parent Amido Complex:â€‰ Studies of Xâ˜'H Activation (X = H or C). Organometallics, 2004, 23, 2724-2733.	1.1	109
12	Anti-Markovnikov Nâ˜'H and Oâ˜'H Additions to Electron-Deficient Olefins Catalyzed by Well-Defined Cu(I) Anilido, Ethoxide, and Phenoxide Systems. Journal of the American Chemical Society, 2006, 128, 1446-1447.	6.6	107
13	Comparative Reactivity of TpRu(L)(NCMe)Ph (L = CO or PMe3):Â Impact of Ancillary Ligand L on Activation of Carbonâ˜'Hydrogen Bonds Including Catalytic Hydroarylation and Hydrovinylation/Oligomerization of Ethylene. Journal of the American Chemical Society, 2007, 129, 6765-6781.	6.6	99
14	Anti-Markovnikov hydroamination and hydrothiolation of electron-deficient vinylarenes catalyzed by well-defined monomeric copper(<scp>i</scp>) amido and thiolate complexes. Chemical Communications, 2008, , 111-113.	2.2	95
15	A rhodium catalyst for single-step styrene production from benzene and ethylene. Science, 2015, 348, 421-424.	6.0	94
16	Addition of Sâ˜'H Bonds across Electron-Deficient Olefins Catalyzed by Well-Defined Copper(I) Thiolate Complexes. Inorganic Chemistry, 2007, 46, 2365-2367.	1.9	92
17	Chemistry Surrounding Monomeric Copper(I) Methyl, Phenyl, Anilido, Ethoxide, and Phenoxide Complexes Supported byN-Heterocyclic Carbene Ligands:Â Reactivity Consistent with Both Early and Late Transition Metal Systems. Inorganic Chemistry, 2006, 45, 9032-9045.	1.9	91
18	Cleavage of Xâ˜'H Bonds (X = N, O, or C) by Copper(I) Alkyl Complexes To Form Monomeric Two-Coordinate Copper(I) Systems. Inorganic Chemistry, 2005, 44, 8647-8649.	1.9	78

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19	Generalized Synthetic Strategy for Transition-Metal-Doped Brookite-Phase TiO₂ Nanorods. Journal of the American Chemical Society, 2019, 141, 16548-16552.	6.6	78
20	Hydrogenâˆ’Deuterium Exchange between TpRu(PMe3)(L)X (L = PMe3and X = OH, OPh, Me, Ph, or NHPh; L =) Tj ETQq0 0 0 rgBT /Overlo the American Chemical Society, 2006, 128, 7982-7994.	6.6	77
21	Activation of Carbonâˆ’Hydrogen Bonds via 1,2-Addition across Mâˆ’X (X = OH or NH2) Bonds of d6Transition Metals as a Potential Key Step in Hydrocarbon Functionalization:Â A Computational Study. Journal of the American Chemical Society, 2007, 129, 13172-13182.	6.6	77
22	Hydroarylation of Unactivated Olefins Catalyzed by Platinum(II) Complexes. Organometallics, 2008, 27, 4031-4033.	1.1	77
23	Mechanistic Studies of Ethylene Hydrophenylation Catalyzed by Bipyridyl Pt(II) Complexes. Journal of the American Chemical Society, 2011, 133, 19131-19152.	6.6	76
24	Activation of carbonâ€“hydrogen bonds and dihydrogen by 1,2-CH-addition across metalâ€“heteroatom bonds. Dalton Transactions, 2013, 42, 16646.	1.6	76
25	Computational Study of Methane Activation by TpRe(CO)2 and CpRe(CO)2 with a Stereoelectronic Comparison of Cyclopentadienyl and Scorpionate Ligands. Organometallics, 2003, 22, 2331-2337.	1.1	71
26	Insights into the Speciation of Cu in the Cu-H-Mordenite Catalyst for the Oxidation of Methane to Methanol. ACS Catalysis, 2019, 9, 5308-5319.	5.5	70
27	Reactions of TpRu(CO)(NCMe)(Me) (Tp = Hydridotris(pyrazolyl)borate) with Heteroaromatic Substrates:â€‰ Stoichiometric and Catalytic Câˆ’H Activation. Organometallics, 2004, 23, 5514-5523.	1.1	65
28	Reactivity of Ruthenium(II) and Copper(I) Complexes that Possess Anionic Heteroatomic Ligands: Synthetic Exploitation of Nucleophilicity and Basicity of Amido, Hydroxo, Alkoxo, and Aryloxo Ligands for the Activation of Substrates that Possess Polar Bonds as well as Nonpolar Câ€“H and Hâ€“H Bonds. European Journal of Inorganic Chemistry, 2007, 2007, 1185-1203.	1.0	65
29	Intramolecular Hydroalkoxylation and Hydroamination of Alkynes Catalyzed by Cu(I) Complexes Supported by <i>N</i>-Heterocyclic Carbene Ligands. ACS Catalysis, 2012, 2, 2182-2193.	5.5	65
30	Selective CH Functionalization of Methane, Ethane, and Propane by a Perfluoroarene Iodine(III) Complex. Angewandte Chemie - International Edition, 2014, 53, 10490-10494.	7.2	62
31	Advances in Rhodium-Catalyzed Oxidative Arene Alkenylation. Accounts of Chemical Research, 2020, 53, 920-936.	7.6	58
32	Synthesis, Solid-State Crystal Structure, and Reactivity of a Monomeric Copper(I) Anilido Complex. Journal of the American Chemical Society, 2003, 125, 9435-9441.	6.6	57
33	Aromatic Câˆ’H Activation and Catalytic Hydrophenylation of Ethylene by TpRu{P(OCH₂)₃CEt}(NCMe)Ph. Organometallics, 2008, 27, 3007-3017.	1.1	55
34	Proton or Metal? The H/D Exchange of Arenes in Acidic Solvents. ACS Catalysis, 2015, 5, 769-775.	5.5	54
35	Ligand Lone-Pair Influence on Hydrocarbon Câˆ’H Activation: A Computational Perspective. Organometallics, 2010, 29, 6801-6815.	1.1	53
36	Selective Monooxidation of Light Alkanes Using Chloride and Iodate. Journal of the American Chemical Society, 2014, 136, 8393-8401.	6.6	53

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37	High Selectivity Towards Formate Production by Electrochemical Reduction of Carbon Dioxide at Copperâ€“Bismuth Dendrites. ChemSusChem, 2019, 12, 231-239.	3.6	51
38	Combined Experimental and Computational Study of TpRu{P(pyr)3}(NCMe)Me (pyr =N-pyrrolyl):Â Inter- and Intramolecular Activation of Câ^'H Bonds and the Impact of Sterics on Catalytic Hydroarylation of Olefins. Organometallics, 2007, 26, 5507-5516.	1.1	50
39	Synthesis and Reactivity of the Octahedral d6Parent Amido Complexes TpRu(L)(Lâ€˜)(NH2) (Tp =) Tj ETQq1 1 0.784314 rgBT /Overlo Organometallics, 2001, 20, 5254-5256.	1.1	45
40	A Promising New Dearomatization Agent:â€‰ Crystal Structure, Synthesis, and Exchange Reactions of the Versatile Complex TpRe(CO)(1-methylimidazole)(Î·2-benzene) (Tp = Hydridotris(pyrazolyl)borate). Organometallics, 2001, 20, 1038-1040.	1.1	45
41	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
42	Carbonâ€“Oxygen Bond Formation via Organometallic Baeyerâ€“Villiger Transformations: A Computational Study on the Impact of Metal Identity. Journal of the American Chemical Society, 2012, 134, 2332-2339.	6.6	44
43	Reactions of TpRe(CO)2(THF) with Aromatic Molecules (Tp = Hydridotris(pyrazolyl)borate). Journal of the American Chemical Society, 1998, 120, 8747-8754.	6.6	43
44	Dihapto Coordination of Aromatic Molecules by the Asymmetric Ï€-Bases {TpRe(CO)(L)} (Tp =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46 2001, 20, 3661-3671.	1.1	43
45	Octahedral Ru(II) Amido Complexes TpRu(L)(Lâ€˜)(NHR) (Tp = Hydridotris(pyrazolyl)borate; L = Lâ€˜ = P(OMe)3) Tj ETQq1 1 0.78431 Weakly Acidic Câ^'H Bonds. Inorganic Chemistry, 2003, 42, 4759-4772.	1.9	43
46	Catalytic Hydroarylation of Ethylene Using TpRu(L)(NCMe)Ph (L =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 392 Td (2,6,7-Trioxa-1-phospha 2012, 31, 6851-6860.	1.1	43
47	Single-Electron Oxidation of Monomeric Copper(I) Alkyl Complexes:â€‰ Evidence for Reductive Elimination through Bimolecular Formation of Alkanes. Organometallics, 2006, 25, 4097-4104.	1.1	42
48	Influence of Filled dÏ€-Manifold and L/Lâ€˜ Ligands on the Structure, Basicity, and Bond Rotations of the Octahedral and d6Amido Complexes TpRu(L)(Lâ€˜)(NHPh) (Tp = Hydridotris(pyrazolyl)borate; L = Lâ€˜ =) Tj ETQq0 0 0 rgBT /Overlock 1 [TpRu{P(OMe)3}2(NH2Ph)][OTf], and TpRu{P(OMe)3}2(NHPh). Inorganic Chemistry, 2002, 41, 3042-3049.	1.9	41
49	Combined Experimental and Computational Studies on the Nature of Aromatic Câ^'H Activation by Octahedral Ruthenium(II) Complexes: Evidence for Ïƒ-Bond Metathesis from Hammett Studies. Organometallics, 2007, 26, 6604-6611.	1.1	41
50	Stereoselective Dihapto-Binding of Prochiral Aromatic Compounds by {TpRe(CO)(PMe3)}:â€‰ Synthesis, Characterization, Stability, and Enantiofacial Discrimination (Tp = Hydrido(tris)pyrazolylborate). Organometallics, 2000, 19, 728-740.	1.1	40
51	Control of Olefin Hydroarylation Catalysis via a Sterically and Electronically Flexible Platinum(II) Catalyst Scaffold. Organometallics, 2013, 32, 3903-3913.	1.1	40
52	Synthesis of Stilbenes by Rhodium-Catalyzed Aerobic Alkenylation of Arenes via Câ€“H Activation. Journal of the American Chemical Society, 2020, 142, 10534-10543.	6.6	39
53	Activation of sp³ Carbonâ€“Hydrogen Bonds by a Ruthenium(II) Complex and Subsequent Metalâ€Mediated Cï£¿C and Cï£¿N Bond Formation. Angewandte Chemie - International Edition, 2008, 47, 726-730.	7.2	37
54	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

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55	Pt^{II}-Catalyzed Hydrophenylation of Î±-Olefins: Variation of Linear/Branched Products as a Function of Ligand Donor Ability. ACS Catalysis, 2014, 4, 1607-1615.	5.5	36
56	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
57	Catalytic Synthesis of â€œSuperâ€•Linear Alkenyl Arenes Using an Easily Prepared Rh(I) Catalyst. Journal of the American Chemical Society, 2017, 139, 5474-5480.	6.6	36
58	Functionalization of Rhenium Aryl Bonds by O-Atom Transfer. Organometallics, 2011, 30, 2079-2082.	1.1	35
59	Non-redox Oxy-Insertion via Organometallic Baeyerâ€“Villiger Transformations: A Computational Hammett Study of Platinum(II) Complexes. Organometallics, 2011, 30, 3779-3785.	1.1	35
60	Chemistry in the Center for Catalytic Hydrocarbon Functionalization: An Energy Frontier Research Center. Catalysis Letters, 2011, 141, 213-221.	1.4	35
61	Electrocatalytic Water Oxidation by a Trinuclear Copper(II) Complex. ACS Catalysis, 2021, 11, 7223-7240.	5.5	35
62	Flavin-Catalyzed Insertion of Oxygen into Rheniumâ€“Methyl Bonds. Journal of the American Chemical Society, 2012, 134, 12920-12923.	6.6	34
63	Platinum(II)-Catalyzed Ethylene Hydrophenylation: Switching Selectivity between Alkyl- and Vinylbenzene Production. Organometallics, 2013, 32, 2857-2865.	1.1	34
64	Organometallic Complexes Anchored to Conductive Carbon for Electrocatalytic Oxidation of Methane at Low Temperature. Journal of the American Chemical Society, 2016, 138, 116-125.	6.6	34
65	BrÃ¸nsted acid-catalysed intramolecular hydroamination of unactivated alkenes: metal triflates as an in situ source of triflic acid. Dalton Transactions, 2017, 46, 2884-2891.	1.6	33
66	Nano-Apples and Orange-Zymes. ACS Catalysis, 2020, 10, 14315-14317.	5.5	33
67	Ligand-Modulated Stereo- and Regioselective Tandem Addition Reactions of Rhenium-Bound Naphthalene. Journal of the American Chemical Society, 2002, 124, 3309-3315.	6.6	32
68	Facile and Regioselective Câ€“H Bond Activation of Aromatic Substrates by an Fe(II) Complex Involving a Spin-Forbidden Pathway. Organometallics, 2013, 32, 1797-1806.	1.1	32
69	Enantiofacial Discrimination in Dihapto-Coordination of Aromatic Molecules by the Chiral Ï€-Base/Ïƒ-Lewis Acid {TpRe(CO)(PMe3)}. Journal of the American Chemical Society, 1999, 121, 6499-6500.	6.6	30
70	Preparation of the Octahedral d6 Amido Complex TpRu(CO)(PPh3)(NHPh) (Tp =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (Hydridot Chemistry, 2001, 40, 6481-6486.	1.9	30
71	Reactions of (PCP)Ru(CO)(NHPh)(PMe3) (PCP = 2,6-(CH2PtBu2)2C6H3) with Substrates That Possess Polar Bonds. Inorganic Chemistry, 2005, 44, 2895-2907.	1.9	30
72	Octahedral [TpRu(PMe3)2OR]n+ Complexes (Tp = hydridotris(pyrazolyl)borate; R = H or Ph; n = 0 or 1):â€‰ Reactions at Ru(II) and Ru(III) Oxidation States with Substrates that Possess Carbonâˆ’Hydrogen Bonds. Organometallics, 2006, 25, 5456-5465.	1.1	29

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73	Rhenium(I) Terpyridine Ï€-Bases:â€‰ Reversible Î·2-Coordination of Ketones, Aldehydes, and Olefins in the Terpyridine Plane. Organometallics, 1999, 18, 573-581.	1.1	28
74	Pt(II) and Pt(IV) Amido, Aryloxide, and Hydrocarbyl Complexes: Synthesis, Characterization, and Reaction with Dihydrogen and Substrates that Possess Câ^'H Bonds. Inorganic Chemistry, 2011, 50, 4195-4211.	1.9	28
75	Variable Pathways for Oxygen Atom Insertion into Metalâ€"Carbon Bonds: The Case of Cp*W(O)₂(CH₂SiMe₃). Journal of the American Chemical Society, 2013, 135, 424-435.	6.6	28
76	Aerobic Epoxidation of Olefin by Platinum Catalysts Supported on Mesoporous Silica Nanoparticles. ACS Catalysis, 2016, 6, 4584-4593.	5.5	28
77	Ruthenium(II)-Mediated Carbonâ^'Carbon Bond Formation between Acetonitrile and Pyrrole:Â Combined Experimental and Computational Study. Organometallics, 2005, 24, 5015-5024.	1.1	27
78	Long-Range Câ€"H Bond Activation by Rh^{III}-Carboxylates. Journal of the American Chemical Society, 2014, 136, 14690-14693.	6.6	27
79	Reactions of a Ru(II) Phenyl Complex with Substrates that Possess Câ^'N or Câ^'O Multiple Bonds:â€‰ Câ^'C Bond Formation, Nâ^'H Bond Cleavage, and Decarbonylation Reactions. Organometallics, 2006, 25, 1500-1510.	1.1	26
80	Reductive functionalization of a rhodium(iii)â€"methyl bond by electronic modification of the supporting ligand. Dalton Transactions, 2014, 43, 8273.	1.6	26
81	Catalytic Synthesis of Superlinear Alkenyl Arenes Using a Rh(I) Catalyst Supported by a â€œCapping Areneâ€• Ligand: Access to Aerobic Catalysis. Journal of the American Chemical Society, 2018, 140, 17007-17018.	6.6	26
82	Organic Electrosynthesis: When Is It Electrocatalysis?. ACS Catalysis, 2020, 10, 13156-13158.	5.5	26
83	Arene Câ€"H activation using Rh(<scp>i</scp>) catalysts supported by bidentate nitrogen chelates. Catalysis Science and Technology, 2015, 5, 96-100.	2.1	25
84	Advances in Group 10 Transition-Metal-Catalyzed Arene Alkylation and Alkenylation. Journal of the American Chemical Society, 2021, 143, 6746-6766.	6.6	25
85	Radical Polymerization of Styrene and Methyl Methacrylate with Ruthenium(II) Complexes. Organometallics, 2003, 22, 4692-4698.	1.1	24
86	Hyperdistorted Tungsten Allyl Complexes and Their Stereoselective Deprotonation to Form Dihapto-Coordinated Dienes. Organometallics, 2011, 30, 2587-2597.	1.1	24
87	Well-Defined Copper(I) Amido Complex and Aryl Iodides Reacting to Form Aryl Amines. Organometallics, 2011, 30, 55-57.	1.1	24
88	DFT Virtual Screening Identifies Rhodiumâ€"Amidinate Complexes As Potential Homogeneous Catalysts for Methane-to-Methanol Oxidation. ACS Catalysis, 2014, 4, 4455-4465.	5.5	24
89	Rhodium Bis(quinolinyl)benzene Complexes for Methane Activation and Functionalization. Chemistry - A European Journal, 2015, 21, 1286-1293.	1.7	24
90	Conversions of Ruthenium(III) Alkyl Complexes to Ruthenium(II) through Ruâ^'Calkyl Bond Homolysis. Organometallics, 2005, 24, 1301-1305.	1.1	23

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91	Metal-free amidation of ether sp3 Câ€“H bonds with sulfonamides using PhI(OAc)2. RSC Advances, 2014, 4, 47951-47957.	1.7	23
92	Mechanism of Hydrocarbon Functionalization by an Iodate/Chloride System: The Role of Ester Protection. ACS Catalysis, 2018, 8, 3138-3149.	5.5	23
93	Mechanistic Studies of Single-Step Styrene Production Catalyzed by Rh Complexes with Diimine Ligands: An Evaluation of the Role of Ligands and Induction Period. ACS Catalysis, 2019, 9, 7457-7475.	5.5	23
94	Reductive Functionalization of a Rhodium(III)â€“Methyl Bond in Acidic Media: Key Step in the Electrophilic Functionalization of Methane. Organometallics, 2014, 33, 6504-6510.	1.1	22
95	Câ€“H Activation of Pyrazolyl Ligands by Ru(II). Inorganic Chemistry, 2014, 53, 6270-6279.	1.9	22
96	Transition Metal Mediated Câ€“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
97	Rhodium-Catalyzed Arene Alkenylation Using Only Dioxygen as the Oxidant. ACS Catalysis, 2020, 10, 11519-11531.	5.5	22
98	Partial oxidation of light alkanes by periodate and chloride salts. Dalton Transactions, 2015, 44, 5294-5298.	1.6	21
99	Net Hydrogenation of Ptâ^'NHPh Bond Is Catalyzed by Elemental Pt. Journal of the American Chemical Society, 2010, 132, 4520-4521.	6.6	18
100	Transition-Metal-Mediated Nucleophilic Aromatic Substitution with Acids. Organometallics, 2016, 35, 2053-2056.	1.1	17
101	Ruthenium(II) Anilido Complex Containing a Bisphosphine Pincer Ligand:Â Reversible Formation of Amidinate Ligands via Intramolecular Câ^'N Bond Formation. Organometallics, 2004, 23, 3094-3097.	1.1	16
102	Density Functional Theory Study of Oxygen-Atom Insertion into Metalâ€“Methyl Bonds of Iron(II), Ruthenium(II), and Osmium(II) Complexes: Study of Metal-Mediated Câ€“O Bond Formation. Inorganic Chemistry, 2014, 53, 2968-2975.	1.9	16
103	To Err is Human; To Reproduce Takes Time. ACS Catalysis, 2022, 12, 3644-3650.	5.5	16
104	Reactivity of TpRu(L)(NCMe)R (L=CO, PMe3; R=Me, Ph) systems with isonitriles: Experimental and computational studies toward the intra- and intermolecular hydroarylation of isonitriles. Journal of Organometallic Chemistry, 2007, 692, 2175-2186.	0.8	15
105	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
106	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
107	Styrene Production from Benzene and Ethylene Catalyzed by Palladium(II): Enhancement of Selectivity toward Styrene via Temperature-dependent Vinyl Ester Consumption. Organometallics, 2019, 38, 3532-3541.	1.1	15
108	Rhodium-Catalyzed Alkenylation of Toluene Using 1-Pentene: Regioselectivity To Generate Precursors for Bicyclic Compounds. Organometallics, 2019, 38, 3860-3870.	1.1	15

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109	Transition-Metal-Catalyzed Arene Alkylation and Alkenylation: Catalytic Processes for the Generation of Chemical Intermediates. ACS Catalysis, 2020, 10, 14080-14092.	5.5	15
110	Use of Ligand Steric Properties to Control the Thermodynamics and Kinetics of Oxidative Addition and Reductive Elimination with Pincer-Ligated Rh Complexes. Organometallics, 2020, 39, 1917-1933.	1.1	15
111	Ruthenium(II) Anilido Complexes TpRuL2(NHPh):Â Oxidative 4,4â€˜-Aryl Coupling Reactions (Tp =) Tj ETQq1 1 0.784314 rgBT /Overlock	1.1	14
112	Electrophilic RhI catalysts for arene H/D exchange in acidic media: Evidence for an electrophilic aromatic substitution mechanism. Journal of Molecular Catalysis A, 2017, 426, 381-388.	4.8	14
113	Selective Photoâ€Oxygenation of Light Alkanes Using Iodine Oxides and Chloride. ChemCatChem, 2019, 11, 5045-5054.	1.8	14
114	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
115	DFT Mechanistic Study of Methane Mono-Esterification by Hypervalent Iodine Alkane Oxidation Process. Journal of Physical Chemistry C, 2019, 123, 15674-15684.	1.5	13
116	Reactions of Ruthenium Benzylidene Complexes with Cyclic and Acyclic Imines:â€‰ Oligomerization of 1-Pyrroline and Metathesis via Tautomerism. Organometallics, 2003, 22, 2291-2297.	1.1	11
117	DFT study of group 8 catalysts for the hydrophenylation of ethylene: Influence of ancillary ligands and metal identity. Journal of Organometallic Chemistry, 2012, 697, 15-22.	0.8	10
118	Preparation and Reactivity of a Monomeric Octahedral Platinum(IV) Amido Complex. Inorganic Chemistry, 2008, 47, 6124-6126.	1.9	9
119	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
120	Oxy-functionalization of Group 9 and 10 transition metal methyl ligands: use of pyridine-based hemi-labile ligands. Dalton Transactions, 2014, 43, 7608-7614.	1.6	9
121	Combined Furan Câ€"H Activation and Furyl Ring-Opening by an Iron(II) Complex. Organometallics, 2016, 35, 1978-1985.	1.1	9
122	Oxidative Alkenylation of Arenes Using Supported Rh Materials: Evidence that Active Catalysts are Formed by Rh Leaching. ChemCatChem, 2021, 13, 260-270.	1.8	9
123	Mechanistic Studies of Styrene Production from Benzene and Ethylene Using [(Î·²-C₂H₄)₂Rh(Î¼-OAc)]₂ as Catalyst Precursor: Identification of a Bis-Rh^I Mono-Cu^{II} Complex As the Catalyst. ACS Catalysis, 2021, 11, 5688-5702.	5.5	9
124	Aerobic Partial Oxidation of Alkanes Using Photodriven Iron Catalysis. Inorganic Chemistry, 2022, 61, 759-766.	1.9	9
125	Manganese Catalyzed Partial Oxidation of Light Alkanes. ACS Catalysis, 2022, 12, 5356-5370.	5.5	9
126	{TpRe(bpy)}:Â A Novel Pentaaminerhenium System That Stabilizes Both High and Low Oxidation States (Tp) Tj ETQq0 0 0 rgBT /Overlock	1.9	8

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127	Synthesis of the RuIV amido complex [TpRu(CO)(PPh3)(NHPh)][OTf]2 (Tp = hydridotris(pyrazolyl)borate;) Tj ETQq1 1 0.78431 rg BT /C computational study of RuIVâ€"imido bondingElectronic supplementary information (ESI) available: experimental procedures; Table 1 comparing calculated structural parameters for complex 2 versus data from the CSD; references. See http://www.rsc.org/suppdata/cc/b1/b110999e/. Chemical Communications, 2002, , 372-373.	2.2	8
128	Immobilization of â€œCapping Areneâ€•Cobalt(II) Complexes on Ordered Mesoporous Carbon for Electrocatalytic Water Oxidation. ACS Catalysis, 2021, 11, 15068-15082.	5.5	8
129	1,2-Addition of Dihydrogen across Rhodium(III)â€"OMe Bonds. Inorganic Chemistry, 2014, 53, 5328-5340.	1.9	7
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