T Brent Gunnoe

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/341850/publications.pdf Version: 2024-02-01



#	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.	15.6	189
2	Oxygen evolution reaction over catalytic single-site Co in a well-defined brookite TiO2 nanorod surface. Nature Catalysis, 2021, 4, 36-45.	34.4	189
3	Electrochemical Reduction of Carbon Dioxide to Syngas and Formate at Dendritic Copper–Indium Electrocatalysts. ACS Catalysis, 2017, 7, 5381-5390.	11.2	166
4	Addition of Arenes to Ethylene and Propene Catalyzed by Ruthenium. Journal of the American Chemical Society, 2003, 125, 7506-7507.	13.7	141
5	Addition of Nâ~'H and Oâ^'H Bonds of Amines and Alcohols to Electron-Deficient Olefins Catalyzed by Monomeric Copper(I) Systems:  Reaction Scope, Mechanistic Details, and Comparison of Catalyst Efficiency. Organometallics, 2007, 26, 1483-1493.	2.3	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.	2.3	128
7	Experimental and Computational Studies of Ruthenium(II)-Catalyzed Addition of Arene Câ^'H Bonds to Olefins. Organometallics, 2004, 23, 5007-5020.	2.3	123
8	Catalytic Oxyâ€Functionalization of Methane and Other Hydrocarbons: Fundamental Advancements and New Strategies. ChemSusChem, 2011, 4, 37-49.	6.8	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.	13.7	112
10	Transition metal catalyzed hydroarylation of olefins using unactivated substrates: Recent developments and challenges. Journal of Organometallic Chemistry, 2011, 696, 305-315.	1.8	110
11	Synthesis and Reactivity of a Coordinatively Unsaturated Ruthenium(II) Parent Amido Complex:  Studies of Xâ^'H Activation (X = H or C). Organometallics, 2004, 23, 2724-2733.	2.3	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.	13.7	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.	13.7	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.	4.1	95
15	A rhodium catalyst for single-step styrene production from benzene and ethylene. Science, 2015, 348, 421-424.	12.6	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.	4.0	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.	4.0	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.	4.0	78

#	Article	IF	CITATIONS
19	Generalized Synthetic Strategy for Transition-Metal-Doped Brookite-Phase TiO ₂ Nanorods. Journal of the American Chemical Society, 2019, 141, 16548-16552.	13.7	78
20	Hydrogenâ^'Deuterium Exchange between TpRu(PMe3)(L)X (L = PMe3and X = OH, OPh, Me, Ph, or NHPh; L = the American Chemical Society, 2006, 128, 7982-7994.) Tj ETQq0 0 13.7	0 rgBT /Overlo 77
21	Activation of Carbonâ^'Hydrogen Bonds via 1,2-Addition across Mâ^'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.	13.7	77
22	Hydroarylation of Unactivated Olefins Catalyzed by Platinum(II) Complexes. Organometallics, 2008, 27, 4031-4033.	2.3	77
23	Mechanistic Studies of Ethylene Hydrophenylation Catalyzed by Bipyridyl Pt(II) Complexes. Journal of the American Chemical Society, 2011, 133, 19131-19152.	13.7	76
24	Activation of carbon–hydrogen bonds and dihydrogen by 1,2-CH-addition across metal–heteroatom bonds. Dalton Transactions, 2013, 42, 16646.	3.3	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.	2.3	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.	11.2	70
27	Reactions of TpRu(CO)(NCMe)(Me) (Tp = Hydridotris(pyrazolyl)borate) with Heteroaromatic Substrates:  Stoichiometric and Catalytic Câ~H Activation. Organometallics, 2004, 23, 5514-5523.	2.3	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 C–H and H–H Bonds. European Journal of Inorganic Chemistry, 2007, 2007, 1185-1203.	2.0	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.	11.2	65
30	Selective CH Functionalization of Methane, Ethane, and Propane by a Perfluoroarene Iodine(III) Complex. Angewandte Chemie - International Edition, 2014, 53, 10490-10494.	13.8	62
31	Advances in Rhodium-Catalyzed Oxidative Arene Alkenylation. Accounts of Chemical Research, 2020, 53, 920-936.	15.6	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.	13.7	57
33	Aromatic Câ^'H Activation and Catalytic Hydrophenylation of Ethylene by TpRu{P(OCH ₂) ₃ CEt}(NCMe)Ph. Organometallics, 2008, 27, 3007-3017.	2.3	55
34	Proton or Metal? The H/D Exchange of Arenes in Acidic Solvents. ACS Catalysis, 2015, 5, 769-775.	11.2	54
35	Ligand Lone-Pair Influence on Hydrocarbon Câ^'H Activation: A Computational Perspective. Organometallics, 2010, 29, 6801-6815.	2.3	53
36	Selective Monooxidation of Light Alkanes Using Chloride and Iodate. Journal of the American Chemical Society, 2014, 136, 8393-8401.	13.7	53

#	Article	IF	CITATIONS
37	High Selectivity Towards Formate Production by Electrochemical Reduction of Carbon Dioxide at Copper–Bismuth Dendrites. ChemSusChem, 2019, 12, 231-239.	6.8	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.	2.3	50
39	Synthesis and Reactivity of the Octahedral d6Parent Amido Complexes TpRu(L)(Lâ€~)(NH2) (Tp =) Tj ETQq1 1 0.78 Organometallics, 2001, 20, 5254-5256.	34314 rgB 2.3	T /Overlock 45
40	A Promising New Dearomatization Agent:  Crystal Structure, Synthesis, and Exchange Reactions of the Versatile Complex TpRe(CO)(1-methylimidazole)(ŀ2-benzene) (Tp = Hydridotris(pyrazolyl)borate). Organometallics, 2001, 20, 1038-1040.	2.3	45
41	Pt ^{II} -Catalyzed Ethylene Hydrophenylation: Influence of Dipyridyl Chelate Ring Size on Catalyst Activity and Longevity. ACS Catalysis, 2013, 3, 1165-1171.	11.2	45
42	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.	13.7	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.	13.7	43
44	Dihapto Coordination of Aromatic Molecules by the Asymmetric π-Bases {TpRe(CO)(L)} (Tp =) Tj ETQq0 0 0 rgBT 2001, 20, 3661-3671.	/Overlock 2.3	10 Tf 50 46 43
45	Octahedral Ru(II) Amido Complexes TpRu(L)(Lâ€~)(NHR) (Tp = Hydridotris(pyrazolyl)borate; L = Lâ€~ = P(OMe)3) T Weakly Acidic Câ~'H Bonds. Inorganic Chemistry, 2003, 42, 4759-4772.	j ETQq1 1 4.0	0.784314 r 43
46	Catalytic Hydroarylation of Ethylene Using TpRu(L)(NCMe)Ph (L =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 392 Td (2	2,6,7-Triox 2.3	a-1-phospha 43
47	Elimination through Bimolecular Formation of Alkanes. Organometallics, 2006, 25, 4097-4104.	2.3	42
48	Influence of Filled dÏ \in -Manifold and L/Lâ \in Ligands on the Structure, Basicity, and Bond Rotations of the Octahedral and d6Amido Complexes TpRu(L)(Lâ \in)(NHPh) (Tp = Hydridotris(pyrazolyl)borate; L = Lâ \in =) Tj ETQqC	4.8 rgBT	/Qyerlock 10
49	Combined Experimental and Computational Studies on the Nature of Aromatic Câ [*] 'H Activation by Octahedral Ruthenium(II) Complexes: Evidence for Ï <i>f</i> -Bond Metathesis from Hammett Studies. Organometallics, 2007, 26, 6604-6611.	2.3	41
50	Stereoselective Dihapto-Binding of Prochiral Aromatic Compounds by {TpRe(CO)(PMe3)}:  Synthesis, Characterization, Stability, and Enantiofacial Discrimination (Tp = Hydrido(tris)pyrazolylborate). Organometallics, 2000, 19, 728-740.	2.3	40
51	Control of Olefin Hydroarylation Catalysis via a Sterically and Electronically Flexible Platinum(II) Catalyst Scaffold. Organometallics, 2013, 32, 3903-3913.	2.3	40
52	Synthesis of Stilbenes by Rhodium-Catalyzed Aerobic Alkenylation of Arenes via C–H Activation. Journal of the American Chemical Society, 2020, 142, 10534-10543.	13.7	39
53	Activation of sp ³ Carbon–Hydrogen Bonds by a Ruthenium(II) Complex and Subsequent Metalâ€Mediated CC and CN Bond Formation. Angewandte Chemie - International Edition, 2008, 47, 726-730.	13.8	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.	7.4	37

#	Article	IF	CITATIONS
55	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.	11.2	36
56	Mechanistic Studies of Single-Step Styrene Production Using a Rhodium(I) Catalyst. Journal of the American Chemical Society, 2017, 139, 1485-1498.	13.7	36
57	Catalytic Synthesis of "Super―Linear Alkenyl Arenes Using an Easily Prepared Rh(I) Catalyst. Journal of the American Chemical Society, 2017, 139, 5474-5480.	13.7	36
58	Functionalization of Rhenium Aryl Bonds by O-Atom Transfer. Organometallics, 2011, 30, 2079-2082.	2.3	35
59	Non-redox Oxy-Insertion via Organometallic Baeyer–Villiger Transformations: A Computational Hammett Study of Platinum(II) Complexes. Organometallics, 2011, 30, 3779-3785.	2.3	35
60	Chemistry in the Center for Catalytic Hydrocarbon Functionalization: An Energy Frontier Research Center. Catalysis Letters, 2011, 141, 213-221.	2.6	35
61	Electrocatalytic Water Oxidation by a Trinuclear Copper(II) Complex. ACS Catalysis, 2021, 11, 7223-7240.	11.2	35
62	Flavin-Catalyzed Insertion of Oxygen into Rhenium–Methyl Bonds. Journal of the American Chemical Society, 2012, 134, 12920-12923.	13.7	34
63	Platinum(II)-Catalyzed Ethylene Hydrophenylation: Switching Selectivity between Alkyl- and Vinylbenzene Production. Organometallics, 2013, 32, 2857-2865.	2.3	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.	13.7	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.	3.3	33
66	Nano-Apples and Orange-Zymes. ACS Catalysis, 2020, 10, 14315-14317.	11.2	33
67	Ligand-Modulated Stereo- and Regioselective Tandem Addition Reactions of Rhenium-Bound Naphthalene. Journal of the American Chemical Society, 2002, 124, 3309-3315.	13.7	32
68	Facile and Regioselective C–H Bond Activation of Aromatic Substrates by an Fe(II) Complex Involving a Spin-Forbidden Pathway. Organometallics, 2013, 32, 1797-1806.	2.3	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.	13.7	30
70	Preparation of the Octahedral d6 Amido Complex TpRu(CO)(PPh3)(NHPh) (Tp =) Tj ETQq0 0 0 rgBT /Overlock 1 Chemistry, 2001, 40, 6481-6486.	0 Tf 50 147 4.0	7 Td (Hydridd 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.	4.0	30
72	Octahedral [TpRu(PMe3)2OR]n+ Complexes (Tp = hydridotris(pyrazolyl)borate; R = H or Ph; n = 0 or 1): Reactions at Ru(II) and Ru(III) Oxidation States with Substrates that Possess Carbonâ^'Hydrogen Bonds. Organometallics, 2006, 25, 5456-5465.	2.3	29

#	Article	IF	CITATIONS
73	Rhenium(I) Terpyridine π-Bases:  Reversible η2-Coordination of Ketones, Aldehydes, and Olefins in the Terpyridine Plane. Organometallics, 1999, 18, 573-581.	2.3	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.	4.0	28
75	Variable Pathways for Oxygen Atom Insertion into Metal–Carbon Bonds: The Case of Cp*W(O) ₂ (CH ₂ SiMe ₃). Journal of the American Chemical Society, 2013, 135, 424-435.	13.7	28
76	Aerobic Epoxidation of Olefin by Platinum Catalysts Supported on Mesoporous Silica Nanoparticles. ACS Catalysis, 2016, 6, 4584-4593.	11.2	28
77	Ruthenium(II)-Mediated Carbonâ^'Carbon Bond Formation between Acetonitrile and Pyrrole:Â Combined Experimental and Computational Study. Organometallics, 2005, 24, 5015-5024.	2.3	27
78	Long-Range C–H Bond Activation by Rh ^{III} -Carboxylates. Journal of the American Chemical Society, 2014, 136, 14690-14693.	13.7	27
79	Reactions of a Ru(II) Phenyl Complex with Substrates that Possess Câ^'N or Câ^'O Multiple Bonds:  Câ^'C Bond Formation, Nâ^'H Bond Cleavage, and Decarbonylation Reactions. Organometallics, 2006, 25, 1500-1510.	2.3	26
80	Reductive functionalization of a rhodium(iii)–methyl bond by electronic modification of the supporting ligand. Dalton Transactions, 2014, 43, 8273.	3.3	26
81	Catalytic Synthesis of Superlinear Alkenyl Arenes Using a Rh(I) Catalyst Supported by a "Capping Arene― Ligand: Access to Aerobic Catalysis. Journal of the American Chemical Society, 2018, 140, 17007-17018.	13.7	26
82	Organic Electrosynthesis: When Is It Electrocatalysis?. ACS Catalysis, 2020, 10, 13156-13158.	11.2	26
83	Arene C–H activation using Rh(<scp>i</scp>) catalysts supported by bidentate nitrogen chelates. Catalysis Science and Technology, 2015, 5, 96-100.	4.1	25
84	Advances in Group 10 Transition-Metal-Catalyzed Arene Alkylation and Alkenylation. Journal of the American Chemical Society, 2021, 143, 6746-6766.	13.7	25
85	Radical Polymerization of Styrene and Methyl Methacrylate with Ruthenium(II) Complexes. Organometallics, 2003, 22, 4692-4698.	2.3	24
86	Hyperdistorted Tungsten Allyl Complexes and Their Stereoselective Deprotonation to Form Dihapto-Coordinated Dienes. Organometallics, 2011, 30, 2587-2597.	2.3	24
87	Well-Defined Copper(I) Amido Complex and Aryl Iodides Reacting to Form Aryl Amines. Organometallics, 2011, 30, 55-57.	2.3	24
88	DFT Virtual Screening Identifies Rhodium–Amidinate Complexes As Potential Homogeneous Catalysts for Methane-to-Methanol Oxidation. ACS Catalysis, 2014, 4, 4455-4465.	11.2	24
89	Rhodium Bis(quinolinyl)benzene Complexes for Methane Activation and Functionalization. Chemistry - A European Journal, 2015, 21, 1286-1293.	3.3	24
90	Conversions of Ruthenium(III) Alkyl Complexes to Ruthenium(II) through Ruâ^'Calkyl Bond Homolysis. Organometallics, 2005, 24, 1301-1305.	2.3	23

#	Article	IF	CITATIONS
91	Metal-free amidation of ether sp3 C–H bonds with sulfonamides using PhI(OAc)2. RSC Advances, 2014, 4, 47951-47957.	3.6	23
92	Mechanism of Hydrocarbon Functionalization by an Iodate/Chloride System: The Role of Ester Protection. ACS Catalysis, 2018, 8, 3138-3149.	11.2	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.	11.2	23
94	Reductive Functionalization of a Rhodium(III)–Methyl Bond in Acidic Media: Key Step in the Electrophilic Functionalization of Methane. Organometallics, 2014, 33, 6504-6510.	2.3	22
95	C–H Activation of Pyrazolyl Ligands by Ru(II). Inorganic Chemistry, 2014, 53, 6270-6279.	4.0	22
96	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.	2.0	22
97	Rhodium-Catalyzed Arene Alkenylation Using Only Dioxygen as the Oxidant. ACS Catalysis, 2020, 10, 11519-11531.	11.2	22
98	Partial oxidation of light alkanes by periodate and chloride salts. Dalton Transactions, 2015, 44, 5294-5298.	3.3	21
99	Net Hydrogenation of Ptâ^'NHPh Bond Is Catalyzed by Elemental Pt. Journal of the American Chemical Society, 2010, 132, 4520-4521.	13.7	18
100	Transition-Metal-Mediated Nucleophilic Aromatic Substitution with Acids. Organometallics, 2016, 35, 2053-2056.	2.3	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.	2.3	16
102	Density Functional Theory Study of Oxygen-Atom Insertion into Metal–Methyl Bonds of Iron(II), Ruthenium(II), and Osmium(II) Complexes: Study of Metal-Mediated C–O Bond Formation. Inorganic Chemistry, 2014, 53, 2968-2975.	4.0	16
103	To Err is Human; To Reproduce Takes Time. ACS Catalysis, 2022, 12, 3644-3650.	11.2	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.	1.8	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.	2.3	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.	2.3	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.	2.3	15
108	Rhodium-Catalyzed Alkenylation of Toluene Using 1-Pentene: Regioselectivity To Generate Precursors for Bicyclic Compounds. Organometallics, 2019, 38, 3860-3870.	2.3	15

#	Article	IF	CITATIONS
109	Transition-Metal-Catalyzed Arene Alkylation and Alkenylation: Catalytic Processes for the Generation of Chemical Intermediates. ACS Catalysis, 2020, 10, 14080-14092.	11.2	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.	2.3	15
111	Ruthenium(II) Anilido Complexes TpRuL2(NHPh): Oxidative 4,4â€ [~] -Aryl Coupling Reactions (Tp =) Tj ETQq1 1 0.7	784314 rg 2.3	BT /Overloc 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.	3.7	14
114	Oxygen Atom Insertion into Iron(II) Phenyl and Methyl Bonds: A Key Step for Catalytic Hydrocarbon Functionalization. Organometallics, 2014, 33, 5597-5605.	2.3	13
115	DFT Mechanistic Study of Methane Mono-Esterification by Hypervalent Iodine Alkane Oxidation Process. Journal of Physical Chemistry C, 2019, 123, 15674-15684.	3.1	13
116	Reactions of Ruthenium Benzylidene Complexes with Cyclic and Acyclic Imines:  Oligomerization of 1-Pyrroline and Metathesis via Tautomerism. Organometallics, 2003, 22, 2291-2297.	2.3	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.	1.8	10
118	Preparation and Reactivity of a Monomeric Octahedral Platinum(IV) Amido Complex. Inorganic Chemistry, 2008, 47, 6124-6126.	4.0	9
119	Pt ^{II} and Rh ^{III} Hydrocarbyl Complexes Bearing Coordinated Oxygen Atom Delivery Reagents. European Journal of Inorganic Chemistry, 2013, 2013, 4515-4525.	2.0	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.	3.3	9
121	Combined Furan C–H Activation and Furyl Ring-Opening by an Iron(II) Complex. Organometallics, 2016, 35, 1978-1985.	2.3	9
122	Oxidative Alkenylation of Arenes Using Supported Rh Materials: Evidence that Active Catalysts are Formed by Rh Leaching. ChemCatChem, 2021, 13, 260-270.	3.7	9
123	Mechanistic Studies of Styrene Production from Benzene and Ethylene Using [(η ² -C ₂ H ₄) ₂ Rh(Î ¹ /4-OAc)] ₂ as Catalyst Precursor: Identification of a Bis-Rh ^I Mono-Cu ^{II} Complex As the Catalyst. ACS Catalysis. 2021, 11, 5688-5702.	11.2	9
124	Aerobic Partial Oxidation of Alkanes Using Photodriven Iron Catalysis. Inorganic Chemistry, 2022, 61, 759-766.	4.0	9
125	Manganese Catalyzed Partial Oxidation of Light Alkanes. ACS Catalysis, 2022, 12, 5356-5370.	11.2	9

 $\{TpRe(bpy)\}$: Â A Novel Pentaaminerhenium System That Stabilizes Both High and Low Oxidation States (Tp) Tj ETQ4000 rgBT /Overloch

#	ARTICLE, Synthesis of the RulV amido complex [TpRu(CO)(PPh3)(NHPh)][OTf]2 (Tp = hydridotris(pyrazolyl)borate;) Ti ET(20 ¹ F1 0.78	4 CITATIONS
127	computational study of RuIV–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	4.1	8
128	Communications, 2002, , 372-373. Immobilization of "Capping Arene―Cobalt(II) Complexes on Ordered Mesoporous Carbon for Electrocatalytic Water Oxidation. ACS Catalysis, 2021, 11, 15068-15082.	11.2	8
129	1,2-Addition of Dihydrogen across Rhodium(III)–OMe Bonds. Inorganic Chemistry, 2014, 53, 5328-5340.	4.0	7
130	Reductive C–C Coupling from Molecular Au(I) Hydrocarbyl Complexes: A Mechanistic Study. Journal of the American Chemical Society, 2021, 143, 2509-2522.	13.7	7
131	Noncovalent Immobilization of Pentamethylcyclopentadienyl Iridium Complexes on Ordered Mesoporous Carbon for Electrocatalytic Water Oxidation. Small Science, 2021, 1, 2100037.	9.9	7
132	Combined experimental and computational study of W(II), Ru(II), Pt(IV) and Cu(I) amine and amido complexes using 15N NMR spectroscopy. Journal of Organometallic Chemistry, 2009, 694, 1549-1556.	1.8	6
133	Phosphine and N-heterocyclic carbene ligands on Pt(II) shift selectivity from ethylene hydrophenylation toward benzene vinylation. Journal of Organometallic Chemistry, 2015, 793, 248-255.	1.8	6
134	Synthesis of RhIIIAnilido, Hydroxide, and Methoxide Complexes. European Journal of Inorganic Chemistry, 2015, 2015, 1041-1052.	2.0	5
135	Studies of the decomposition of the ethylene hydrophenylation catalyst TpRu(CO)(NCMe)Ph. Journal of Organometallic Chemistry, 2017, 847, 289-293.	1.8	4
136	Effects of Additives on Catalytic Arene C–H Activation: Study of Rh Catalysts Supported by Bis-phosphine Pincer Ligands. Organometallics, 2020, 39, 3918-3935.	2.3	4
137	<i>ACS Catalysis</i> Highlights Its Most Cited Papers from Around the Globe: Australia, Saudi Arabia, and Singapore. ACS Catalysis, 2020, 10, 10125-10126.	11.2	4
138	Excellence <i>versus</i> Diversity? Not an Either/Or Choice. ACS Catalysis, 2020, 10, 7310-7311.	11.2	4
139	Rhodium and Iridium Complexes Bearing "Capping Arene―Ligands: Synthesis and Characterization. Organometallics, 2021, 40, 2808-2825.	2.3	4
140	Reaction Mechanism Underlying Pd(II)-Catalyzed Oxidative Coupling of Ethylene and Benzene to Form Styrene: Identification of a Cyclic Mono-Pd ^{II} Bis-Cu ^{II} Complex as the Active Catalyst. Organometallics, 0, , .	2.3	4
141	Polymers for the stabilization and delivery of proteins topically and per os to the insect hemocoel through conjugation with aliphatic polyethylene glycol. Pesticide Biochemistry and Physiology, 2014, 115, 58-66.	3.6	3
142	ACS Catalysis Highlights Its Most Cited Papers from Around the Globe: United Kingdom. ACS Catalysis, 2020, 10, 11663-11664.	11.2	3
143	<i>ACS Catalysis</i> Highlights Its Most Cited Papers from Around the Globe: Japan. ACS Catalysis, 2020, 10, 10715-10716.	11.2	3
144	Functionalization of RhIII–Me Bonds: Use of "Capping Arene―Ligands to Facilitate Me–X Reductive Elimination. Organometallics, 2021, 40, 1889-1906.	2.3	3

#	Article	IF	CITATIONS
145	Studies of C–H Activation and Functionalization: Combined Computational and Experimental Efforts to Elucidate Mechanisms, Principles, and Catalysts. Springer Series in Materials Science, 2021, , 767-806.	0.6	2
146	ACS Catalysis Highlights Its Most Cited Papers from Around the Globe: Denmark and Sweden. ACS Catalysis, 2020, 10, 12340-12341.	11.2	2
147	<i>ACS Catalysis</i> Highlights Its Most Cited Papers from Around the Globe: Germany and The Netherlands. ACS Catalysis, 2020, 10, 13549-13550.	11.2	2
148	Electron-Deficient Ru(II) Complexes as Catalyst Precursors for Ethylene Hydrophenylation. Inorganics, 2022, 10, 76.	2.7	2
149	ACS Catalysis Highlights Its Most Cited Papers From Around the Globe: United States. ACS Catalysis, 2020, 10, 15140-15141.	11.2	0
150	<i>ACS Catalysis's</i> 10th Anniversary Viewpoints. ACS Catalysis, 2021, 11, 343-344.	11.2	0
151	Role of Axial Ligation in Gating the Reactivity of Dimethylplatinum(III) Diimine Radical Cations. Organometallics, 2021, 40, 333-345.	2.3	0
152	<i>ACS Catalysis</i> Welcomes Professor Cathleen Crudden as Editor-in-Chief. ACS Catalysis, 2021, 11, 2397-2397.	11.2	0
153	Thomas Ward Selected to Receive the 2021 ACS Catalysis Lectureship. ACS Catalysis, 2021, 11, 1816-1817.	11.2	0