

Rory Waterman

List of Publications by Year in descending order

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2824
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#	ARTICLE	IF	CITATIONS
1	Effect of Photolysis on Zirconium Amino Phenoxides for the Hydrophosphination of Alkenes: Improving Catalysis. <i>Photochem</i> , 2022, 2, 77-87.	1.3	3
2	Cyclo-Tetrakis(1/4-diphenylphosphido)-1,5-bis(tri-tert-butylphosphine)-Tetracopper. <i>MolBank</i> , 2022, 2022, M1334.	0.2	3
3	2,6-Bis[bis(1,1-dimethylethyl)phosphinito- \hat{P}]phenyl- \hat{C}]trans-chlorohydro(phenylphosphine)iridium(III). <i>MolBank</i> , 2022, 2022, M1388.	0.2	0
4	Zirconium Complexes. , 2021, , 162-196.		0
5	Silicon \hat{C} -Nitrogen Bond Formation via Heterodehydrocoupling and Catalytic N \hat{C} -Silylation. <i>Chemistry - A European Journal</i> , 2021, 27, 3251-3261.	1.7	19
6	Buta- and Penta-Dienyl Complexes of the Group 4 Metals. , 2021, , .		0
7	A Commercially Available Ruthenium Compound for Catalytic Hydrophosphination. <i>Israel Journal of Chemistry</i> , 2020, 60, 446-451.	1.0	8
8	Love in the Time of COVID. <i>Journal of Organic Chemistry</i> , 2020, 85, 14273-14275.	1.7	1
9	A bench-stable copper photocatalyst for the rapid hydrophosphination of activated and unactivated alkenes. <i>Chemical Communications</i> , 2020, 56, 14219-14222.	2.2	20
10	Actinide 2-metallabiphenylenes that satisfy H \hat{C} kel \hat{C} 's rule. <i>Nature</i> , 2020, 578, 563-567.	13.7	43
11	Photoactivated silicon \hat{C} -oxygen and silicon \hat{C} -nitrogen heterodehydrocoupling with a commercially available iron compound. <i>Dalton Transactions</i> , 2020, 49, 2972-2978.	1.6	15
12	Structural versatility of the quasi-aromatic M \hat{C} bius type zinc(ii)-pseudohalide complexes \hat{C} experimental and theoretical investigations. <i>RSC Advances</i> , 2019, 9, 23764-23773.	1.7	10
13	Triamidoamine-Supported Zirconium Compounds in Main Group Bond-Formation Catalysis. <i>Accounts of Chemical Research</i> , 2019, 52, 2361-2369.	7.6	14
14	Anodic Oxidation of Ethynylferrocene Derivatives in Homogeneous Solution and Following Anodic Deposition onto Glassy Carbon Electrodes. <i>ChemElectroChem</i> , 2019, 6, 5880-5887.	1.7	2
15	Element \hat{C} -Hydrogen Bond Activations at Cationic Platinum Centers To Produce Silylene, Germylene, Stannylene, and Stibido Complexes. <i>Organometallics</i> , 2019, 38, 2053-2061.	1.1	9
16	Photocatalytic Hydrophosphination of Alkenes and Alkynes Using Diphenylphosphine and Triamidoamine \hat{C} -Supported Zirconium. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1640-1643.	1.0	14
17	Electrochemical and structural characterization of a radical cation formed by one-electron oxidation of a cymantrene complex containing an N-heterocyclic carbene ligand. <i>Polyhedron</i> , 2019, 157, 442-448.	1.0	6
18	Visible-light and thermal driven double hydrophosphination of terminal alkynes using a commercially available iron compound. <i>Chemical Communications</i> , 2018, 54, 2774-2776.	2.2	26

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19	Catalytic Nâ€“Si coupling as a vehicle for silane dehydrocoupling via Î±-silylene elimination. Dalton Transactions, 2018, 47, 2138-2142.	1.6	18
20	Evidence for Ironâ€“Catalyzed Î±â€“Phosphinidene Elimination with Phenylphosphine. Chemistry - A European Journal, 2018, 24, 2554-2557.	1.7	14
21	Zirconium-catalyzed hydroarsination with primary arsines. Polyhedron, 2018, 156, 31-34.	1.0	10
22	Light-Driven, Zirconium-Catalyzed Hydrophosphination with Primary Phosphines. ACS Catalysis, 2018, 8, 6230-6238.	5.5	30
23	An Inorganic Chemistry Laboratory Course as Research. Journal of Chemical Education, 2018, 95, 1520-1525.	1.1	36
24	Siâ€“N Heterodehydrocoupling with a Lanthanide Compound. Organometallics, 2018, 37, 4395-4401.	1.1	18
25	Visible Light Photocatalysis Using a Commercially Available Iron Compound. Organometallics, 2017, 36, 3891-3895.	1.1	24
26	Synthesis and characterization of a new and electronically unusual uranium metallacyclocumulene, (C5Me5)2U(Î±-1,2,3,4-PhC4Ph). Journal of Organometallic Chemistry, 2017, 829, 79-84.	0.8	27
27	Throwing Away the Cookbook: Implementing Course-Based Undergraduate Research Experiences (CUREs) in Chemistry. ACS Symposium Series, 2017, , 33-63.	0.5	37
28	The Cottrell Scholars Collaborative New Faculty Workshop: Early Lessons for Change in Teaching. ACS Symposium Series, 2017, , 23-34.	0.5	0
29	Zirconium-Catalyzed Alkene Hydrophosphination and Dehydrocoupling with an Air-Stable, Fluorescent Primary Phosphine. Inorganics, 2016, 4, 26.	1.2	6
30	Exciton Delocalization in H₂OBPc₁â€“MOBPc₁ (M = Tj ETQqO O O rgBT /Overlock 11966-11976.	1.5	4
31	Metalâ€“Ligand Cooperativity in a Methandiideâ€“Derived Iridium Carbene Complex. Chemistry - A European Journal, 2016, 22, 3846-3855.	1.7	22
32	Selectivity effects in zirconium-catalyzed heterodehydrocoupling reactions of phosphines. Phosphorus, Sulfur and Silicon and the Related Elements, 2016, 191, 668-670.	0.8	3
33	Synthesis, X-ray characterization, DFT calculations and Hirshfeld surface analysis of Zn(<sc>ii</sc>) and Cd(<sc>ii</sc>) complexes based on isonicotinoylhydrazone ligand. CrystEngComm, 2016, 18, 4587-4596.	1.3	27
34	A â€“Bottle-ableâ€“Phosphinidene. Chem, 2016, 1, 27-29.	5.8	8
35	Zirconium-Catalyzed Intermolecular Double Hydrophosphination of Alkynes with a Primary Phosphine. ACS Catalysis, 2016, 6, 6413-6416.	5.5	36
36	Triamidoamine-supported zirconium: hydrogen activation, Lewis acidity, and rac-lactide polymerization. RSC Advances, 2016, 6, 70581-70585.	1.7	6

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37	Challenges in Catalytic Hydrophosphination. <i>Chemistry - A European Journal</i> , 2016, 22, 12598-12605.	1.7	126
38	Phosphorus chemistry: discoveries and advances. <i>Dalton Transactions</i> , 2016, 45, 1801-1803.	1.6	3
39	Zirconium-catalyzed intermolecular hydrophosphination using a chiral, air-stable primary phosphine. <i>Dalton Transactions</i> , 2016, 45, 1863-1867.	1.6	25
40	Tuning the Oxidation State, Nuclearity, and Chemistry of Uranium Hydrides with Phenylsilane and Temperature: The Case of the Classic Uranium(III) Hydride Complex [(C ₅ Me ₅) ₂ U(1/4-H)] ₂ . <i>Organometallics</i> , 2016, 35, 617-620.	1.1	44
41	Tin-catalyzed hydrophosphination of alkenes. <i>Dalton Transactions</i> , 2016, 45, 6204-6209.	1.6	23
42	Spin Exchange Interaction in Substituted Copper Phthalocyanine Crystalline Thin Films. <i>Scientific Reports</i> , 2015, 5, 16536.	1.6	6
43	Organic analogues of diluted magnetic semiconductors: bridging quantum chemistry to condensed matter physics. , 2015, , .		1
44	Zirconium-Catalyzed Amine Borane Dehydrocoupling and Transfer Hydrogenation. <i>Organometallics</i> , 2015, 34, 4693-4699.	1.1	46
45	Iridium Pincer Catalysts for Silane Dehydrocoupling: Ligand Effects on Selectivity and Activity. <i>Organometallics</i> , 2015, 34, 3865-3872.	1.1	37
46	Cobalt-catalyzed ammonia borane dehydrocoupling and transfer hydrogenation under aerobic conditions. <i>Dalton Transactions</i> , 2015, 44, 12074-12077.	1.6	51
47	Macroscopic Molecular Ordering and Exciton Delocalization in Crystalline Phthalocyanine Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1834-1840.	2.1	19
48	Phenylsilane as a safe, versatile alternative to hydrogen for the synthesis of actinide hydrides. <i>Chemical Communications</i> , 2015, 51, 17379-17381.	2.2	52
49	Unexpected formal insertion of CO ₂ into the C-Si bonds of a zinc compound. <i>Chemical Communications</i> , 2015, 51, 15804-15807.	2.2	14
50	Carbon-Hydrogen Bond Activation, C-N Bond Coupling, and Cycloaddition Reactivity of a Three-Coordinate Nickel Complex Featuring a Terminal Imido Ligand. <i>Inorganic Chemistry</i> , 2014, 53, 13227-13238.	1.9	51
51	Dehydrocoupling of amine boranes via tin(IV) and tin(II) catalysts. <i>Journal of Organometallic Chemistry</i> , 2014, 751, 541-545.	0.8	21
52	Cottrell Scholars Collaborative New Faculty Workshop: Professional Development for New Chemistry Faculty and Initial Assessment of Its Efficacy. <i>Journal of Chemical Education</i> , 2014, 91, 1874-1881.	1.1	38
53	Synthesis, structure, and reactivity of platinum compounds featuring terminal amido and phosphido ligands. <i>Inorganica Chimica Acta</i> , 2014, 422, 57-64.	1.2	6
54	Exploration of tin-catalyzed phosphine dehydrocoupling: Catalyst effects and observation of tin-catalyzed hydrophosphination. <i>Inorganica Chimica Acta</i> , 2014, 422, 141-145.	1.2	30

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55	Intermolecular Zirconium-Catalyzed Hydrophosphination of Alkenes and Dienes with Primary Phosphines. <i>Journal of the American Chemical Society</i> , 2014, 136, 9240-9243.	6.6	80
56	Metal Complexes (M = Zn, Sn, and Pb) of 2-Phosphinobenzenethiolates: Insights into Ligand Folding and Hemilability. <i>Inorganic Chemistry</i> , 2013, 52, 9875-9884.	1.9	14
57	Ïf-Bond Metathesis: A 30-Year Retrospective. <i>Organometallics</i> , 2013, 32, 7249-7263.	1.1	243
58	A general synthesis of phosphalkenes at zirconium with liberation of phosphoramidates. <i>Dalton Transactions</i> , 2013, 42, 1159-1167.	1.6	22
59	Mechanisms of metal-catalyzed dehydrocoupling reactions. <i>Chemical Society Reviews</i> , 2013, 42, 5629.	18.7	158
60	Zirconium-Mediated Synthesis of Arsaalkene Compounds from Arsines and Isocyanides. <i>Inorganic Chemistry</i> , 2013, 52, 7811-7816.	1.9	12
61	Bis(4-methyl- <i>N</i> -(2- <i>Z</i> ,4- <i>E</i>)-4-[(4-methylphenyl)imino]pent-2-en-2-yl)anilino)zinc. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, m343-m343.	0.2	1
62	rac-18-Methoxycoronaridine hydrochloride. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o1041-o1041.	0.2	0
63	Dehydrogenative Bond-Forming Catalysis Involving Phosphines: Updated Through 2010. <i>Current Organic Chemistry</i> , 2012, 16, 1313-1331.	0.9	22
64	As-As Bond Formation via Reductive Elimination from a Zirconocene Bis(dimesitylarsenide) Compound. <i>Organometallics</i> , 2012, 31, 5204-5207.	1.1	12
65	High Activity and Selectivity for Silane Dehydrocoupling by an Iridium Catalyst. <i>ACS Catalysis</i> , 2012, 2, 1404-1407.	5.5	16
66	Synthesis and characterization of zinc complexes and reactivity with primary phosphines. <i>Journal of Organometallic Chemistry</i> , 2012, 696, 4327-4331.	0.8	10
67	Terminal hafnium phosphinidene complexes and phosphinidene ligand exchange. <i>Chemical Science</i> , 2011, 2, 1320.	3.7	35
68	Differences in the stability of zirconium(IV) complexes related to catalytic phosphine dehydrocoupling reactions. <i>Dalton Transactions</i> , 2011, 40, 7683.	1.6	15
69	C-N Bond formation via ligand-induced nucleophilicity at a coordinated triamidoamine ligand. <i>Chemical Communications</i> , 2011, 47, 11769.	2.2	14
70	Triamidoamine-supported zirconium complexes in the catalytic dehydrocoupling of 1,2-bisphosphinobenzene and -ethane. <i>Polyhedron</i> , 2010, 29, 42-45.	1.0	23
71	Insertion Reactions and Catalytic Hydrophosphination by Triamidoamine-Supported Zirconium Complexes. <i>Organometallics</i> , 2010, 29, 2557-2565.	1.1	75
72	Insertion reactions involving a triamidoamine-supported zirconium complex. <i>Dalton Transactions</i> , 2010, 39, 9073.	1.6	11

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73	General Preparation of $(\text{N}^{\text{3}}\text{ZrX}(\text{N}^{\text{3}}) \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td}(\text{N}(\text{CH}^{\text{2}}\text{Hydride Surrogate. Organometallics, 2009, 28, 573-581.}$	1.1	37
74	A Hydrogen-Substituted Osmium Stannylene Complex: Isomerization to a Metallostannylene Complex via an Unusual $\hat{\text{I}}^{\pm}$ -Hydrogen Migration from Tin to Osmium. Journal of the American Chemical Society, 2009, 131, 4606-4607.	6.6	64
75	Synthesis, Structure, and Reactivity of Neutral Hydrogen-Substituted Ruthenium Silylene and Germylene Complexes. Organometallics, 2009, 28, 5082-5089.	1.1	70
76	Sequential Insertion Reactions of Carbon Monoxide and Ethylene into the $\text{Ni}^{\text{II}}\text{C}$ Bond of a Cationic Nickel(II) Alkyl Complex. Organometallics, 2009, 28, 2568-2571.	1.1	15
77	Group-Transfer Reactions of Nickel $\hat{\text{I}}$ Carbene and $\hat{\text{I}}$ Nitrene Complexes with Organoazides and Nitrous Oxide that Form New $\text{C}\hat{\text{I}}\text{N}$, $\text{C}\hat{\text{I}}\text{O}$, and $\text{N}\hat{\text{I}}\text{N}$ Bonds. Journal of the American Chemical Society, 2009, 131, 12872-12873.	6.6	120
78	Metal-phosphido and -phosphinidene complexes in $\text{P}\hat{\text{I}}^{\text{E}}$ bond-forming reactions. Dalton Transactions, 2009, , 18-26.	1.6	200
79	Mechanistic variety in zirconium-catalyzed bond-forming reaction of arsines. Dalton Transactions, 2008, , 4488.	1.6	54
80	Paramagnetic Vanadium Silyl Complexes: Synthesis, Structure, and Reactivity. Organometallics, 2008, 27, 5717-5722.	1.1	16
81	$\hat{\text{I}}^{\text{2}}$ -Phosphinoethylboranes as Ambiphilic Ligands in Nickel $\hat{\text{I}}$ Methyl Complexes. Organometallics, 2008, 27, 1135-1139.	1.1	76
82	$\hat{\text{I}}^{\text{2}}$ -Organoazide Complexes of Nickel and Their Conversion to Terminal Imido Complexes via Dinitrogen Extrusion. Journal of the American Chemical Society, 2008, 130, 12628-12629.	6.6	105
83	Dehydrogenative Bond-Forming Catalysis Involving Phosphines. Current Organic Chemistry, 2008, 12, 1322-1339.	0.9	70
84	$\{\text{N}^{\text{2}}\text{N}^{\text{2}}\text{-Bis}[2\text{-}(\text{trimethylsilylamino})\text{ethyl}]\text{-N}^{\text{2}}\text{-}(\text{trimethylsilyl})\text{ethane-1,2-diaminato}(3\hat{\text{I}}^{\text{4}})\hat{\text{I}}^{\text{4}}\text{N}^{\text{4}}\}$ me Acta Crystallographica Section E: Structure Reports Online, 2008, 64, m477-m477.	0.2	4
85	Insertion of benzyl isocyanide into a $\text{Zr}\hat{\text{I}}^{\text{P}}$ bond and rearrangement. Atom-economical synthesis of a phosphalkene. Chemical Communications, 2007, , 4172.	2.2	29
86	Selective Dehydrocoupling of Phosphines by Triamidoamine Zirconium Catalysts. Organometallics, 2007, 26, 2492-2494.	1.1	89
87	Zirconium-Catalyzed Heterodehydrocoupling of Primary Phosphines with Silanes and Germanes. Inorganic Chemistry, 2007, 46, 6855-6857.	1.9	58
88	Synthetic Development and Chemical Reactivity of Transition-Metal Silylene Complexes. Accounts of Chemical Research, 2007, 40, 712-719.	7.6	322
89	Terminal stibinidene ligands. Generation of $\text{CpCp}^*\text{Hf}\hat{\text{I}}^{\text{Sb}}(\text{dmp})$ and trapping reactions with PMe_3 and 2-butyne. Chemical Communications, 2006, , 4030-4032.	2.2	20
90	Antimony $\hat{\text{I}}$ Antimony Bond Formation by Reductive Elimination from a Hafnium Bis(stibido) Complex. Inorganic Chemistry, 2006, 45, 9625-9627.	1.9	17

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91	Hydrogen-Substituted Osmium Silylene Complexes: Effect of Charge Localization on Catalytic Hydrosilylation. <i>Journal of the American Chemical Society</i> , 2006, 128, 428-429.	6.6	128
92	Catalytic Antimony Antimony Bond Formation through Stibinidene Elimination from Zirconocene and Hafnocene Complexes. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2926-2929.	7.2	64
93	Synthesis and structure of a terminal dinitrogen complex of nickel. <i>Canadian Journal of Chemistry</i> , 2005, 83, 328-331.	0.6	32
94	Synthesis of 1,2-bis(di-tert-butylphosphino)ethane (dtbpe) complexes of nickel: radical coupling and reduction reactions promoted by the nickel(I) dimer [(dtbpe)NiCl] ₂ . <i>Inorganica Chimica Acta</i> , 2003, 345, 299-308.	1.2	83
95	Group Transfer from Nickel Imido, Phosphinidene, and Carbene Complexes to Ethylene with Formation of Aziridine, Phosphirane, and Cyclopropane Products. <i>Journal of the American Chemical Society</i> , 2003, 125, 13350-13351.	6.6	164
96	Formation of Phosphirenes by Phosphinidene Group-Transfer Reactions from (dtbpe)NiP(dmp) to Alkynes. <i>Organometallics</i> , 2003, 22, 5182-5184.	1.1	64
97	Monomeric Phosphido and Phosphinidene Complexes of Nickel. <i>Journal of the American Chemical Society</i> , 2002, 124, 3846-3847.	6.6	151
98	Synthesis, structure, and reactions of a nitroxyl complex of iridium(III), cis,trans-IrHCl ₂ (NH ₂ O)(PPh ₃) ₂ . <i>Chemical Communications</i> , 2002, , 660-661.	2.2	38
99	A New Route to Coordination Complexes of Nitroxyl (HNO) via Insertion Reactions of Nitrosonium Triflate with Transition-Metal Hydrides. <i>Journal of the American Chemical Society</i> , 2002, 124, 12068-12069.	6.6	37