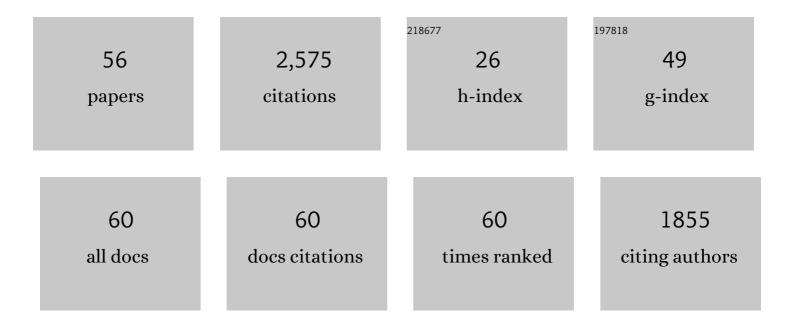
## **Anthony Haynes**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Methanol carbonylation revisited: thirty years on. Journal of the Chemical Society Dalton Transactions, 1996, , 2187.	1.1	290
2	Promotion of Iridium-Catalyzed Methanol Carbonylation:Â Mechanistic Studies of the Cativa Process. Journal of the American Chemical Society, 2004, 126, 2847-2861.	13.7	252
3	Mechanistic studies on rhodium-catalyzed carbonylation reactions: spectroscopic detection and reactivity of a key intermediate, [MeRh(CO)2I3] Journal of the American Chemical Society, 1993, 115, 4093-4100.	13.7	132
4	Theoretical and Experimental Evidence for SN2 Transition States in Oxidative Addition of Methyl Iodide to cis-[M(CO)2I2]- (M = Rh, Ir). Journal of the American Chemical Society, 1996, 118, 3029-3030.	13.7	127
5	Steric and Electronic Effects on the Reactivity of Rh and Ir Complexes Containing Pâ^'S, Pâ^'P, and Pâ^'O Ligands. Implications for the Effects of Chelate Ligands in Catalysis. Journal of the American Chemical Society, 2002, 124, 13597-13612.	13.7	115
6	lodide effects in transition metal catalyzed reactions. Dalton Transactions, 2004, , 3409.	3.3	103
7	Oxidative Addition of Alkyl Halides to Rhodium(I) and Iridium(I) Dicarbonyl Diiodides: Key Reactions in the Catalytic Carbonylation of Alcohols. Organometallics, 1994, 13, 3215-3226.	2.3	92
8	Theoretical, Thermodynamic, Spectroscopic, and Structural Studies of the Consequences of One-Electron Oxidation on the Feâ^'X Bonds in 17- and 18-Electron Cp*Fe(dppe)X Complexes (X = F, Cl, Br,) Tj ET	Ū <b>q₿.</b> ₱0r	gBJ2/Overloc
9	Quantifying Steric Effects of α-Diimine Ligands. Oxidative Addition of MeI to Rhodium(I) and Migratory Insertion in Rhodium(III) Complexes. Organometallics, 2003, 22, 1047-1054.	2.3	91
10	A Dramatic Steric Effect on the Rate of Migratory CO Insertion on Rhodium. Journal of the American Chemical Society, 1999, 121, 11233-11234.	13.7	83
11	Direct observation of MeRh(CO)2I3-, the key intermediate in rhodium-catalyzed methanol carbonylation. Journal of the American Chemical Society, 1991, 113, 8567-8569.	13.7	74
12	Acetic Acid Synthesis by Catalytic Carbonylation of Methanol. , 2006, , 179-205.		71
13	Oxidative Addition of Mel to a Rhodium(I) N-Heterocyclic Carbene Complex. A Kinetic Study. Organometallics, 2003, 22, 4451-4458.	2.3	59
14	Encapsulation of an organometallic cationic catalyst by direct exchange into an anionic MOF. Chemical Science, 2016, 7, 2037-2050.	7.4	57
15	Catalytic Methanol Carbonylation. Advances in Catalysis, 2010, , 1-45.	0.2	54
16	Ligand Stereoelectronic Effects in Complexes of Phospholanes, Phosphinanes, and Phosphepanes and Their Implications for Hydroformylation Catalysis. Organometallics, 2007, 26, 713-725.	2.3	53
17	Mechanistic Study of Rhodium/xantphos-Catalyzed Methanol Carbonylation. Organometallics, 2011, 30, 6166-6179.	2.3	52
18	Encapsulation of Crabtree's Catalyst in Sulfonated MILâ€101(Cr): Enhancement of Stability and Selectivity between Competing Reaction Pathways by the MOF Chemical Microenvironment. Angewandte Chemie - International Edition, 2018, 57, 4532-4537.	13.8	52

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19	A mechanism for the photochemical conversion of FpSi2Me5 to FpSiMe3 (Fp = (.eta.5-C5H5)Fe(CO)2). Infrared evidence for an intermediate iron-silylene complex. Journal of the American Chemical Society, 1991, 113, 2011-2020.	13.7	51
20	Bis(imino)carbazolide Complexes of Rhodium:  Highly Nucleophilic Ligands Exerting a Dramatic Accelerating Effect on MeI Oxidative Addition. Organometallics, 2004, 23, 1015-1023.	2.3	50
21	Spectroscopic identification and reactivity of [Ir(CO)3I2Me], a key reactive intermediate in iridium catalysed methanol carbonylation. Chemical Communications, 1998, , 1023-1024.	4.1	44
22	Oxidative addition of MeI to cationic Rh(I) carbonyl complexes with pyridyl bis(carbene) ligands. Journal of Organometallic Chemistry, 2005, 690, 6089-6095.	1.8	37
23	A Mechanistic Investigation of Oxidative Addition of Methyl Iodide to [Tp*Rh(CO)(L)]. Inorganic Chemistry, 2002, 41, 3280-3290.	4.0	36
24	Dramatic acceleration of migratory insertion in [Melr(CO)2I3]? by methanol and by tin(II) iodide. Journal of the Chemical Society Chemical Communications, 1995, , 1045.	2.0	35
25	The carbonylation of methyl iodide and methanol to methyl acetate catalysed by palladium and platinum iodides. Chemical Communications, 1999, , 179-180.	4.1	32
26	Oxidative addition of methyl iodide to [Rh(CO)2I]2: synthesis, structure and reactivity of neutral rhodium acetyl complexes, [Rh(CO)(NCR)(COMe)I2]2. Inorganica Chimica Acta, 2004, 357, 3027-3037.	2.4	31
27	Ligand Effects on Reactivity of Cobalt Acyl Complexes. ACS Catalysis, 2012, 2, 2512-2523.	11.2	28
28	rs-Type coordinates in weakly-bound dimers: application to linear dimers Bâ‹⁻HCN, where Bî—»CO, N2 and HCN. Journal of Molecular Structure, 1988, 189, 153-164.	3.6	27
29	The photochemistry of dinuclear osmium carbonyl complexes; characterisation of Os2(CO)8 using matrix isolation. Journal of Organometallic Chemistry, 1990, 383, 497-519.	1.8	27
30	Model reactions of a carbonylation catalyst: phosphite induced migratory CO insertion in [Melr(CO)2I3]â^'. Inorganica Chimica Acta, 1998, 270, 382-391.	2.4	27
31	Structure and reactivity of polymer-supported carbonylation catalysts. Dalton Transactions RSC, 2002, , 2565.	2.3	27
32	Cis–trans isomerism in [M(CO)2I4]â^' (M=Rh, Ir): Kinetic, mechanistic and spectroscopic studies. Journal of Organometallic Chemistry, 1998, 551, 339-347.	1.8	25
33	The synthesis, characterisation and reactivity of 2-phosphanylethylcyclopentadienyl complexes of cobalt, rhodium and iridium. Dalton Transactions, 2006, , 91-107.	3.3	25
34	Kinetics and thermodynamics of C—Cl bond activation by [Ir(CO) 2 Cl 2 ] â^'. Journal of Physical Organic Chemistry, 2004, 17, 1007-1016.	1.9	24
35	Dicarbonylrhodium(I) Complexes of Bipyridine Ligands with Proximate H-Bonding Substituents and Their Application in Methyl Acetate Carbonylation. European Journal of Inorganic Chemistry, 2011, 2011, 3511-3522.	2.0	22
36	Formation and Reactivity of Ir(III) Hydroxycarbonyl Complexes. Inorganic Chemistry, 2006, 45, 6269-6275.	4.0	20

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#	Article	IF	CITATIONS
37	Methane formation during the iridium/iodide catalysed carbonylation of methanol. Inorganic Chemistry Communication, 2000, 3, 11-12.	3.9	17
38	Reactivity of Rhodium(I) Iminophosphine Carbonyl Complexes with Methyl Iodide. Organometallics, 2007, 26, 1960-1965.	2.3	17
39	Identification of the Reactive cis,mer Isomer of [Ir(CO)2I3Me]â^': Relation to the Mechanism of Iridium-Catalyzed Methanol Carbonylation. Inorganic Chemistry, 2009, 48, 28-35.	4.0	15
40	The migratory insertion of carbon monoxide in pentamethylcyclopentadienyliridium (III) complexes. Structural effects on reactivity and mechanism for rhodium and iridium systems. Inorganica Chimica Acta, 1995, 240, 485-493.	2.4	14
41	Facile Alkene Insertion into a Rhodium(III)â^Acetyl Bond:Â Potential Catalysts for CO/Alkene Copolymerization. Organometallics, 2004, 23, 5907-5909.	2.3	13
42	Infrared spectroscopic study of absorption and separation of CO using copper( <scp>i</scp> )-containing ionic liquids. Dalton Transactions, 2017, 46, 2821-2828.	3.3	13
43	Mid-IR spectroscopy for rapid on-line analysis in heterogeneous catalyst testing. Catalysis Today, 2003, 81, 309-317.	4.4	12
44	Methyl to alkylidene migration within trans-[WMe(CHPh)(CO)2(ÎC5H5)]. Chemical Communications, 1996, , 1765-1766.	4.1	10
45	The photochemistry of cyclopentadienyl platinum carbonyl dimers: characterization of [Pt2(µ-CO)(η5-C5R5)2](R = H or Me) using matrix isolation and fast time-resolved infrared spectroscopy. Journal of the Chemical Society Dalton Transactions, 1988, , 1501-1507.	1.1	9
46	Reactivity of Ir(iii) carbonyl complexes with water: alternative by-product formation pathways in catalytic methanol carbonylation. Dalton Transactions, 2013, 42, 16538.	3.3	9
47	The Use of High Pressure Infrared Spectroscopy to Study Catalytic Mechanisms. , 2005, , 107-150.		8
48	Mechanistic insight into organic and industrial transformations: general discussion. Faraday Discussions, 2019, 220, 282-316.	3.2	8
49	Encapsulation of Crabtree's Catalyst in Sulfonated MIL-101(Cr): Enhancement of Stability and Selectivity between Competing Reaction Pathways by the MOF Chemical Microenvironment. Angewandte Chemie, 2018, 130, 4622-4627.	2.0	7
50	Heterogenisation of a carbonylation catalyst on dispersible microporous polymer nanoparticles. Catalysis Science and Technology, 0, , .	4.1	2
51	Structure and reactivity of polymer-supported carbonylation catalysts. Special Publication - Royal Society of Chemistry, 2007, , 166-175.	0.0	1
52	The structural characterization and hydroformylation activity of the tri-rhodium complex [Rh3(μ2-dppm)2(μ2-CO)3(K1-CO)3]BF4. Inorganic Chemistry Communication, 2009, 12, 1071-1073.	3.9	1
53	lodide Effects in Transition Metal Catalyzed Reactions. ChemInform, 2005, 36, no.	0.0	0
54	lridium Complexes in Organic Synthesis.Herausgegeben von Luisâ€A. Oro und Carmen Claver Angewandte Chemie, 2009, 121, 6107-6108.	2.0	0

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#	Article	IF	CITATIONS
55	Physical methods for mechanistic understanding: general discussion. Faraday Discussions, 2019, 220, 144-178.	3.2	0

New Explorations in Metal-Catalyzed Reactions. , 1998, , 83-93.