

# Anthony Haynes

## List of Publications by Year in descending order

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56  
papers

2,575  
citations

218677

26  
h-index

197818

49  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1855  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical methods for mechanistic understanding: general discussion. Faraday Discussions, 2019, 220, 144-178.	3.2	0
2	Mechanistic insight into organic and industrial transformations: general discussion. Faraday Discussions, 2019, 220, 282-316.	3.2	8
3	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
4	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 - International Edition, 2018, 57, 4532-4537.	13.8	52
5	Infrared spectroscopic study of absorption and separation of CO using copper-containing ionic liquids. Dalton Transactions, 2017, 46, 2821-2828.	3.3	13
6	Encapsulation of an organometallic cationic catalyst by direct exchange into an anionic MOF. Chemical Science, 2016, 7, 2037-2050.	7.4	57
7	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
8	Ligand Effects on Reactivity of Cobalt Acyl Complexes. ACS Catalysis, 2012, 2, 2512-2523.	11.2	28
9	Mechanistic Study of Rhodium/xantphos-Catalyzed Methanol Carbonylation. Organometallics, 2011, 30, 6166-6179.	2.3	52
10	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
11	Catalytic Methanol Carbonylation. Advances in Catalysis, 2010, , 1-45.	0.2	54
12	Iridium Complexes in Organic Synthesis. Herausgegeben von Luis E. A. Oro und Carmen Claver. Angewandte Chemie, 2009, 121, 6107-6108.	2.0	0
13	The structural characterization and hydroformylation activity of the tri-rhodium complex $[\text{Rh}_3(\text{P}(\text{CH}_2)_2\text{dppm})_2(\text{P}(\text{CH}_2)_2\text{CO})_3(\text{K}^+\text{CO}_3)]\text{BF}_4$ . Inorganic Chemistry Communication, 2009, 12, 1071-1073.	3.9	1
14	Identification of the Reactive cis,mer Isomer of $[\text{Ir}(\text{CO})_2\text{I}_3\text{Me}]^+$ : Relation to the Mechanism of Iridium-Catalyzed Methanol Carbonylation. Inorganic Chemistry, 2009, 48, 28-35.	4.0	15
15	Reactivity of Rhodium(I) Iminophosphine Carbonyl Complexes with Methyl Iodide. Organometallics, 2007, 26, 1960-1965.	2.3	17
16	Structure and reactivity of polymer-supported carbonylation catalysts. Special Publication - Royal Society of Chemistry, 2007, , 166-175.	0.0	1
17	Ligand Stereoelectronic Effects in Complexes of Phospholanes, Phosphinanes, and Phosphhepanes and Their Implications for Hydroformylation Catalysis. Organometallics, 2007, 26, 713-725.	2.3	53
18	Acetic Acid Synthesis by Catalytic Carbonylation of Methanol. , 2006, , 179-205.		71

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19	The synthesis, characterisation and reactivity of 2-phosphanylethylcyclopentadienyl complexes of cobalt, rhodium and iridium. Dalton Transactions, 2006, , 91-107.	3.3	25
20	Formation and Reactivity of Ir(III) Hydroxycarbonyl Complexes. Inorganic Chemistry, 2006, 45, 6269-6275.	4.0	20
21	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
22	Iodide Effects in Transition Metal Catalyzed Reactions. ChemInform, 2005, 36, no.	0.0	0
23	The Use of High Pressure Infrared Spectroscopy to Study Catalytic Mechanisms. , 2005, , 107-150.		8
24	Kinetics and thermodynamics of C-Cl bond activation by $[\text{Ir}(\text{CO})_2\text{Cl}]^+$ . Journal of Physical Organic Chemistry, 2004, 17, 1007-1016.	1.9	24
25	Oxidative addition of methyl iodide to $[\text{Rh}(\text{CO})_2\text{I}]_2$ : synthesis, structure and reactivity of neutral rhodium acetyl complexes, $[\text{Rh}(\text{CO})(\text{NCR})(\text{COMe})_2]_2$ . Inorganica Chimica Acta, 2004, 357, 3027-3037.	2.4	31
26	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
27	Facile Alkene Insertion into a Rhodium(III) Acetyl Bond: Potential Catalysts for CO/Alkene Copolymerization. Organometallics, 2004, 23, 5907-5909.	2.3	13
28	Promotion of Iridium-Catalyzed Methanol Carbonylation: Mechanistic Studies of the Cativa Process. Journal of the American Chemical Society, 2004, 126, 2847-2861.	13.7	252
29	Iodide effects in transition metal catalyzed reactions. Dalton Transactions, 2004, , 3409.	3.3	103
30	Mid-IR spectroscopy for rapid on-line analysis in heterogeneous catalyst testing. Catalysis Today, 2003, 81, 309-317.	4.4	12
31	Quantifying Steric Effects of $\pm$ -Diimine Ligands. Oxidative Addition of MeI to Rhodium(I) and Migratory Insertion in Rhodium(III) Complexes. Organometallics, 2003, 22, 1047-1054.	2.3	91
32	Oxidative Addition of MeI to a Rhodium(I) N-Heterocyclic Carbene Complex. A Kinetic Study. Organometallics, 2003, 22, 4451-4458.	2.3	59
33	A Mechanistic Investigation of Oxidative Addition of Methyl Iodide to $[\text{Tp}^*\text{Rh}(\text{CO})(\text{L})]$ . Inorganic Chemistry, 2002, 41, 3280-3290.	4.0	36
34	Steric and Electronic Effects on the Reactivity of Rh and Ir Complexes Containing $\text{P}^{\wedge}\text{S}$ , $\text{P}^{\wedge}\text{P}$ , and $\text{P}^{\wedge}\text{O}$ Ligands. Implications for the Effects of Chelate Ligands in Catalysis. Journal of the American Chemical Society, 2002, 124, 13597-13612.	13.7	115
35	Structure and reactivity of polymer-supported carbonylation catalysts. Dalton Transactions RSC, 2002, , 2565.	2.3	27
36	Theoretical, Thermodynamic, Spectroscopic, and Structural Studies of the Consequences of One-Electron Oxidation on the Fe-X Bonds in 17- and 18-Electron $\text{Cp}^*\text{Fe}(\text{dppe})\text{X}$ Complexes (X = F, Cl, Br). J. Am. Chem. Soc. 2000, 122, 1000-1007.	4.0	37

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37	Methane formation during the iridium/iodide catalysed carbonylation of methanol. <i>Inorganic Chemistry Communication</i> , 2000, 3, 11-12.	3.9	17
38	A Dramatic Steric Effect on the Rate of Migratory CO Insertion on Rhodium. <i>Journal of the American Chemical Society</i> , 1999, 121, 11233-11234.	13.7	83
39	The carbonylation of methyl iodide and methanol to methyl acetate catalysed by palladium and platinum iodides. <i>Chemical Communications</i> , 1999, , 179-180.	4.1	32
40	Model reactions of a carbonylation catalyst: phosphite induced migratory CO insertion in $[MeIr(CO)2I3]^{+}$ . <i>Inorganica Chimica Acta</i> , 1998, 270, 382-391.	2.4	27
41	Cis-trans isomerism in $[M(CO)2I4]^{+}$ (M=Rh, Ir): Kinetic, mechanistic and spectroscopic studies. <i>Journal of Organometallic Chemistry</i> , 1998, 551, 339-347.	1.8	25
42	Spectroscopic identification and reactivity of $[Ir(CO)3I2Me]$ , a key reactive intermediate in iridium catalysed methanol carbonylation. <i>Chemical Communications</i> , 1998, , 1023-1024.	4.1	44
43	New Explorations in Metal-Catalyzed Reactions. , 1998, , 83-93.		0
44	Methanol carbonylation revisited: thirty years on. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996, , 2187.	1.1	290
45	Methyl to alkylidene migration within trans- $[WMe(\eta^5-C_5H_5)(CO)_2(\eta^5-C_5H_5)]$ . <i>Chemical Communications</i> , 1996, , 1765-1766.	4.1	10
46	Theoretical and Experimental Evidence for SN2 Transition States in Oxidative Addition of Methyl iodide to cis- $[M(CO)2I2]^{-}$ (M = Rh, Ir). <i>Journal of the American Chemical Society</i> , 1996, 118, 3029-3030.	13.7	127
47	The migratory insertion of carbon monoxide in pentamethylcyclopentadienyliridium (III) complexes. Structural effects on reactivity and mechanism for rhodium and iridium systems. <i>Inorganica Chimica Acta</i> , 1995, 240, 485-493.	2.4	14
48	Dramatic acceleration of migratory insertion in $[MeIr(CO)2I3]^{+}$ by methanol and by tin(II) iodide. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 1045.	2.0	35
49	Oxidative Addition of Alkyl Halides to Rhodium(I) and Iridium(I) Dicarbonyl Diiodides: Key Reactions in the Catalytic Carbonylation of Alcohols. <i>Organometallics</i> , 1994, 13, 3215-3226.	2.3	92
50	Mechanistic studies on rhodium-catalyzed carbonylation reactions: spectroscopic detection and reactivity of a key intermediate, $[MeRh(CO)2I3]^{-}$ . <i>Journal of the American Chemical Society</i> , 1993, 115, 4093-4100.	13.7	132
51	A mechanism for the photochemical conversion of $FpSi_2Me_5$ to $FpSiMe_3$ (Fp = $(\eta^5-C_5H_5)Fe(CO)_2$ ). Infrared evidence for an intermediate iron-silylene complex. <i>Journal of the American Chemical Society</i> , 1991, 113, 2011-2020.	13.7	51
52	Direct observation of $MeRh(CO)2I3^{-}$ , the key intermediate in rhodium-catalyzed methanol carbonylation. <i>Journal of the American Chemical Society</i> , 1991, 113, 8567-8569.	13.7	74
53	The photochemistry of dinuclear osmium carbonyl complexes; characterisation of $Os_2(CO)_8$ using matrix isolation. <i>Journal of Organometallic Chemistry</i> , 1990, 383, 497-519.	1.8	27
54	rs-Type coordinates in weakly-bound dimers: application to linear dimers $B\ddot{\alpha}^{-}HCN$ , where $B\ddot{\alpha}^{-} \rightarrow CO, N_2$ and HCN. <i>Journal of Molecular Structure</i> , 1988, 189, 153-164.	3.6	27

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55	The photochemistry of cyclopentadienyl platinum carbonyl dimers: characterization of $[\text{Pt}_2(\mu\text{-CO})(\eta^5\text{-C}_5\text{R}_5)_2]$ (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
56	Heterogenisation of a carbonylation catalyst on dispersible microporous polymer nanoparticles. Catalysis Science and Technology, 0, , .	4.1	2