

Robin Whyman

List of Publications by Year in descending order

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49
papers

7,915
citations

236925

25
h-index

214800

47
g-index

55
all docs

55
docs citations

55
times ranked

9168
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Methods for the Catalytic Hydrogenation of Carboxamides. <i>Chemical Reviews</i> , 2014, 114, 5477-5510.	47.7	260
2	High-Pressure In Situ NMR Methods for the Study of Reaction Kinetics in Homogeneous Catalysis. <i>ACS Catalysis</i> , 2012, 2, 2281-2289.	11.2	20
3	Selective hydrogenation of amides using bimetallic Ru/Re and Rh/Re catalysts. <i>Journal of Catalysis</i> , 2011, 278, 228-238.	6.2	92
4	Selective hydrogenation of amides using Rh/Mo catalysts. <i>Journal of Catalysis</i> , 2010, 269, 93-102.	6.2	74
5	Selective Hydrogenation of Amides using Ruthenium/ Molybdenum Catalysts. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 869-883.	4.3	69
6	The synthesis of, and characterization of the dynamic processes occurring in Pd(ii) chelate complexes of 2-pyridyldiphenylphosphine. <i>Dalton Transactions</i> , 2010, 39, 7921.	3.3	26
7	The reaction of mixtures of [Rh ₄ (CO) ₁₂] and triphenylphosphite with carbon monoxide or syngas as studied by high-resolution, high-pressure NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, S100-S106.	1.9	3
8	Lattice-Stabilized Complex Ions. <i>Inorganic Syntheses</i> , 2007, , 47-53.	0.3	1
9	The Mechanism of the Hydroalkoxycarbonylation of Ethene and Alkene \rightarrow CO Copolymerization Catalyzed by PdII \rightarrow Diphosphine Cations. <i>Chemistry - A European Journal</i> , 2006, 12, 4417-4430.	3.3	41
10	Coordination complexes of functionalized pyrazines with metal ions: reagents for the controlled release of flavourant molecules at elevated temperatures. <i>Flavour and Fragrance Journal</i> , 2006, 21, 202-206.	2.6	2
11	The Complete Delineation of the Initiation, Propagation, and Termination Steps of the Carbomethoxy Cycle for the Carboalkoxylation of Ethene by Pd \rightarrow Diphosphane Catalysts. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 90-94.	13.8	45
12	Methanolysis of acyl \rightarrow Pd(ii) complexes relevant to CO/ethene coupling reactions. <i>Chemical Communications</i> , 2004, , 1326-1327.	4.1	38
13	Characterization and Dynamics of [Pd(L \rightarrow L)H(solvent)] ⁺ , [Pd(L \rightarrow L)(CH ₂ CH ₃)] ⁺ , and [Pd(L \rightarrow L)(C(O)Et)(THF)] ⁺ (L \rightarrow L = 1,2-(CH ₂ PBut ₂) ₂ C ₆ H ₄): A Key Intermediates in the Catalytic Methoxycarbonylation of Ethene to Methylpropanoate. <i>Organometallics</i> , 2002, 21, 1832-1840.	2.3	120
14	Synthesis and reactivity of palladium hydrido-solvento complexes, including a key intermediate in the catalytic methoxycarbonylation of ethene to methyl propanoate. <i>Dalton Transactions RSC</i> , 2002, , 3300-3308.	2.3	106
15	Carbon monoxide activation in homogeneously catalysed reactions: the nature and roles of catalytic promotersBased on the presentation given at Dalton Discussion No. 4, 10 \rightarrow 13th January, 2002, Kloster Banz, Germany.. <i>Dalton Transactions RSC</i> , 2002, , 771-777.	2.3	44
16	The effect of mechanistic pathway on activity in the Pd and Pt catalysed methoxycarbonylation of ethene. <i>Chemical Communications</i> , 2002, , 2784-2785.	4.1	23
17	The effect of water on the enantioselective hydrogenation of ethyl pyruvate and butane-2,3-dione using cinchona-modified Pt/Al ₂ O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2839-2845.	2.8	15
18	Stereochemical nonrigidity of [Rh ₆ (CO) ₁₅ L] clusters in solutionElectronic supplementary information (ESI) available; the relationship between the rate of S-type exchange in [Rh ₆ (CO) ₁₅ (PR ₃)] and the pK _a \rightarrow values of the phosphine ligand. See http://www.rsc.org/suppdata/dt/b1/b101962g/ . <i>Dalton Transactions RSC</i> , 2001, , 3303-3311.	2.3	17

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19	Synthesis and spectroscopic characterisation of all the intermediates in the Pd-catalysed methoxycarbonylation of ethene. <i>Chemical Communications</i> , 2000, , 609-610.	4.1	113
20	Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate. <i>Journal of Molecular Catalysis A</i> , 1999, 146, 149-157.	4.8	74
21	Volcano relationships in metal cluster catalysis: An infrared spectroscopic monitor of site character. <i>Reaction Kinetics and Catalysis Letters</i> , 1999, 68, 45-52.	0.6	0
22	Supported nickel catalysts: Preparation and characterisation of alumina-, molybdena-, and silica-supported nickel, and the identification of reactive oxygen on these catalysts by exchange with isotopically labelled carbon dioxide. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2573-2580.	2.8	16
23	Synthesis and structural characterisation of the mixed metal clusters $[\text{Rh}_2\text{Pt}_3(\frac{1}{4}\text{-CO})_5(\text{CO})_4(\text{PPh}_3)_3]$ and $[\text{Rh}_2\text{Pt}_2(\frac{1}{4}\text{-CO})_3(\text{CO})_4(\text{PPh}_3)_3]$; crystal structure of $[\text{Rh}_2\text{Pt}_3(\frac{1}{4}\text{-CO})_5(\text{CO})_4(\text{PPh}_3)_3]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 1609-1614.	1.1	18
24	Identification of active phases in Au-Fe catalysts for low-temperature CO oxidation. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 485-489.	2.8	117
25	Solvent and substituent effects on the sense of the enantioselective hydrogenation of pyruvate esters catalysed by Pd and Pt in colloidal and supported forms. <i>Chemical Communications</i> , 1998, , 1451-1452.	4.1	43
26	Preparation and X-ray crystallographic characterisation of the trititanate $[\text{Ti}_3\text{O}(\frac{1}{4}\text{-OPri})_3(\text{OPri})_4\{\text{Me}_2\text{C}(\text{O})\text{CH}_2\text{C}(\text{O})\text{CH}_2\text{C}(\text{O})\text{Me}_2\}]$, a reaction product of $[\text{Ti}(\text{OPri})_4]$ and propan-2-one. <i>Chemical Communications</i> , 1997, , 1653-1654.	4.1	20
27	High-activity Au/Cu-ZnO catalysts for the oxidation of carbon monoxide at ambient temperature. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 187-188.	1.7	70
28	In situ spectroscopic evidence for facile, carbon monoxide mediated, reversible cleavage of neutral heterobimetallic rhodium-ruthenium complexes into ionic mononuclear complexes. <i>Chemical Communications</i> , 1996, , 2061-2062.	4.1	4
29	Preparation, characterisation and properties of groups VIII and IB metal nanoparticles. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996, , 673.	1.1	29
30	Gold nanoparticles a renaissance in gold chemistry. <i>Gold Bulletin</i> , 1996, 29, 11-15.	2.7	17
31	Stoichiometric hydrogenation of ethene on Rh(111); mechanism, importance of weakly adsorbed ethene, and relationship to homogeneous catalysis. <i>Catalysis Letters</i> , 1994, 25, 293-308.	2.6	22
32	Synthesis of thiol-derivatised gold nanoparticles in a two-phase Liquid-Liquid system. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, .	2.0	5,935
33	Preparation and reactivity of iodomethyl complexes of rhodium(III); crystal and molecular structure of carbonylchloriodo(iodomethyl)bis(triethylphosphine)rhodium(III). <i>Journal of the Chemical Society Dalton Transactions</i> , 1994, , 1963.	1.1	9
34	Characterisation of hydridopalladium complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 3081-3084.	1.1	11
35	High-pressure spectroscopic studies of reactions of the clusters $[\text{Rh}_4(\text{CO})_{12-x}\{\text{P}(\text{O}^i\text{Pr})_3\}_x]$ ($x = 1-4$) with carbon monoxide or syngas. <i>Journal of the Chemical Society Dalton Transactions</i> , 1991, , 677-683.	1.1	29
36	Catalytic Reactions Carried Out with Metals Derived from Clusters. , 1988, , 75-95.		4

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37	Chemisorption and catalysis by metal clusters. Hydrogenation of carbon monoxide and carbon dioxide catalysed by supported Ruthenium clusters derived from Ru ₃ (CO) ₁₂ and from H ₄ Ru ₄ (CO) ₁₂ . Journal of the Chemical Society Faraday Transactions I, 1987, 83, 905.	1.0	8
38	Chemisorption and catalysis by metal clusters. Hydrogenation of ethene and hydrogenolysis of ethane catalysed by supported ruthenium clusters derived from Ru ₃ (CO) ₁₂ and from H ₄ Ru ₄ (CO) ₁₂ . Journal of the Chemical Society Faraday Transactions I, 1986, 82, 2719.	1.0	6
39	The photochemical synthesis of [Cr(CO) ₅ (H ₂)] in solution: i.r. evidence for co-ordinated molecular dihydrogen. Journal of the Chemical Society Chemical Communications, 1985, , 27.	2.0	59
40	Selective production of C ₂ -oxygenate esters from synthesis gas using mixed metal homogeneous catalysts. Journal of the Chemical Society Chemical Communications, 1983, , 1439.	2.0	15
41	Air stability of catalysts derived from osmium and ruthenium cluster carbonyls. Journal of the Chemical Society Chemical Communications, 1982, , 85.	2.0	5
42	Crystal and molecular structure of Rh ₂ (CO)(NBD) ₂ (C ₈ H ₈ O); a reaction product of Rh ₆ (CO) ₁₆ and norbornadiene. Journal of the Chemical Society Chemical Communications, 1975, , 562.	2.0	7
43	Triplet ground state in the dimer bis(pyridine N-oxide)copper(II) nitrate. Journal of the American Chemical Society, 1970, 92, 4982-4984.	13.7	54
44	Some reactions of the octahalodirhenate(III) ions. IV. Reactions with sodium thiocyanate and the preparation of isothiocyanate complexes of rhenium(III) and rhenium(IV). Inorganic Chemistry, 1967, 6, 929-935.	4.0	62
45	Low-frequency infrared spectral studies on copper(II) halide complexes with substituted pyridine N-oxides. Inorganic Chemistry, 1967, 6, 1859-1862.	4.0	42
46	Substituted pyridine N-oxide complexes. VI Spectral and magnetic properties of some 4-substituted pyridine N-oxide complexes with transition metal perchlorates. Inorganica Chimica Acta, 1967, 1, 113-119.	2.4	72
47	Spin-Spin Coupling in Binuclear Complexes. III. The Magnetic Properties of Copper Salts of Substituted Benzoic Acids. Inorganic Chemistry, 1966, 5, 1855-1858.	4.0	36
48	Magnetic properties of copper(II) salts of some carboxylic acids. The Journal of the Chemical Society A, Inorganic, Physical and Theoretical, 1966, , 1194.	0.7	6
49	Substituted quinoline n-oxide complexes of copper(II) halides. Inorganic and Nuclear Chemistry Letters, 1966, 2, 373-375.	0.7	7