Robin Whyman

List of Publications by Year in descending order

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	Synthesis of thiol-derivatised gold nanoparticles in a two-phase Liquidâ€“Liquid system. Journal of the Chemical Society Chemical Communications, 1994, .	2.0	5,935
2	Review of Methods for the Catalytic Hydrogenation of Carboxamides. Chemical Reviews, 2014, 114, 5477-5510.	47.7	260
3	Characterization and Dynamics of [Pd(Lâ^'L)H(solv)]+, [Pd(Lâ^'L)(CH2CH3)]+, and [Pd(Lâ^'L)(C(O)Et)(THF)]+(Lâ^'L = 1,2-(CH2PBut2)2C6H4):Â Key Intermediates in the Catalytic Methoxycarbonylation of Ethene to Methylpropanoate. Organometallics, 2002, 21, 1832-1840.	2.3	120
4	Identification of active phases in Auâ€“Fe catalysts for low-temperature CO oxidation. Physical Chemistry Chemical Physics, 1999, 1, 485-489.	2.8	117
5	Synthesis and spectroscopic characterisation of all the intermediates in the Pd-catalysed methoxycarbonylation of ethene. Chemical Communications, 2000, , 609-610.	4.1	113
6	Synthesis and reactivity of palladium hydrido-solvento complexes, including a key intermediate in the catalytic methoxycarbonylation of ethene to methyl propanoate. Dalton Transactions RSC, 2002, , 3300-3308.	2.3	106
7	Selective hydrogenation of amides using bimetallic Ru/Re and Rh/Re catalysts. Journal of Catalysis, 2011, 278, 228-238.	6.2	92
8	Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate. Journal of Molecular Catalysis A, 1999, 146, 149-157.	4.8	74
9	Selective hydrogenation of amides using Rh/Mo catalysts. Journal of Catalysis, 2010, 269, 93-102.	6.2	74
10	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
11	High-activity Au/CuOâ€“ZnO catalysts for the oxidation of carbon monoxide at ambient temperature. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 187-188.	1.7	70
12	Selective Hydrogenation of Amides using Ruthenium/ Molybdenum Catalysts. Advanced Synthesis and Catalysis, 2010, 352, 869-883.	4.3	69
13	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
14	The photochemical synthesis of [Cr(CO)5(H2)]in solution: i.r. evidence for co-ordinated molecular dihydrogen. Journal of the Chemical Society Chemical Communications, 1985, , 27.	2.0	59
15	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
16	The Complete Delineation of the Initiation, Propagation, and Termination Steps of the Carbomethoxy Cycle for the Carboalkoxylation of Ethene by Pdâ€“Diphosphane Catalysts. Angewandte Chemie - International Edition, 2004, 43, 90-94.	13.8	45
17	Carbon monoxide activation in homogeneously catalysed reactions: the nature and roles of catalytic promotersBased on the presentation given at Dalton Discussion No. 4, 10Ã¢â‚¬â€œ13th January, 2002, Kloster Banz, Germany.. Dalton Transactions RSC, 2002, , 771-777.	2.3	44
18	Solvent and substituent effects on the sense of the enantioselective hydrogenation of pyruvate esters catalysed by Pd and Pt in colloidal and supported forms. Chemical Communications, 1998, , 1451-1452.	4.1	43

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19	Low-frequency infrared spectral studies on copper(II) halide complexes with substituted pyridine N-oxides. Inorganic Chemistry, 1967, 6, 1859-1862.	4.0	42
20	The Mechanism of the Hydroalkoxycarbonylation of Ethene and Alkeneâ€“CO Copolymerization Catalyzed by PdIIâ€“Diphosphine Cations. Chemistry - A European Journal, 2006, 12, 4417-4430.	3.3	41
21	Methanolysis of acylâ€“Pd(ii) complexes relevant to CO/ethene coupling reactions. Chemical Communications, 2004, , 1326-1327.	4.1	38
22	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
23	High-pressure spectroscopic studies of reactions of the clusters [Rh4(CO)12â€“x{P(OPh)3}x](x= 1â€“4) with carbon monoxide or syngas. Journal of the Chemical Society Dalton Transactions, 1991, , 677-683.	1.1	29
24	Preparation, characterisation and properties of groups VIII and IB metal manoparticles. Journal of the Chemical Society Dalton Transactions, 1996, , 673.	1.1	29
25	The synthesis of, and characterization of the dynamic processes occurring in Pd(ii) chelate complexes of 2-pyridyldiphenylphosphine. Dalton Transactions, 2010, 39, 7921.	3.3	26
26	The effect of mechanistic pathway on activity in the Pd and Pt catalysed methoxycarbonylation of ethene. Chemical Communications, 2002, , 2784-2785.	4.1	23
27	Stoichiometric hydrogenation of ethene on Rh(111); mechanism, importance of weakly adsorbed ethene, and relationship to homogeneous catalysis. Catalysis Letters, 1994, 25, 293-308.	2.6	22
28	Preparation and X-ray crystallographic characterisation of the trititanate [Ti3O(Î¼-OPri)3(OPri)4 {Me2C(O)CHî€†C(O)CH2C(O)Me2 }], a reaction product of [Ti(OPri)4] and propan-2-one. Chemical Communications, 1997, , 1653-1654.	4.1	20
29	High-Pressure In Situ NMR Methods for the Study of Reaction Kinetics in Homogeneous Catalysis. ACS Catalysis, 2012, 2, 2281-2289.	11.2	20
30	Synthesis and structural characterisation of the mixed metal clusters [Rh2Pt3(Î¼-CO)5(CO)4(PPh3)3] and [Rh2Pt2(Î¼-CO)3(CO)4(PPh3)3]; crystal structure of [Rh2Pt3(Î¼-CO)5(CO)4(PPh3)3]â€Šâ€. Journal of the Chemical Society Dalton Transactions, 1999, , 1609-1614.	1.1	18
31	Gold nanoparticles a renaissance in gold chemistry. Gold Bulletin, 1996, 29, 11-15.	2.7	17
32	Stereochemical nonrigidity of [Rh6(CO)15L] clusters in solutionElectronic supplementary information (ESI) available; the relationship between the rate of S-type exchange in [Rh6(CO)15(PR3)] and the pKaÂ¢â‚‚Â² values of the phosphine ligand. See http://www.rsc.org/suppdata/dt/b1/b101962g/. Dalton Transactions RSC, 2001, , 3303-3311.	2.3	17
33	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. Physical Chemistry Chemical Physics, 1999, 1, 2573-2580.	2.8	16
34	Selective production of C2-oxygenate esters from synthesis gas using mixed metal homogeneous catalysts. Journal of the Chemical Society Chemical Communications, 1983, , 1439.	2.0	15
35	The effect of water on the enantioselective hydrogenation of ethyl pyruvate and butane-2,3-dione using cinchona-modified Pt/Al2O3. Physical Chemistry Chemical Physics, 2002, 4, 2839-2845.	2.8	15
36	Characterisation of hydridopalladium complexes. Journal of the Chemical Society Dalton Transactions, 1993, , 3081-3084.	1.1	11

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37	Preparation and reactivity of iodomethyl complexes of rhodium(III); crystal and molecular structure of carbonylchloroiodo(iodomethyl)bis(triethylphosphine)rhodium(III). Journal of the Chemical Society Dalton Transactions, 1994, , 1963.	1.1	9
38	Chemisorption and catalysis by metal clusters. Hydrogenation of carbon monoxide and carbon dioxide catalysed by supported Ruthenium clusters derived from Ru3(CO)12 and from H4Ru4(CO)12. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 905.	1.0	8
39	Substituted quinoline n-oxide complexes of copper(II) halides. Inorganic and Nuclear Chemistry Letters, 1966, 2, 373-375.	0.7	7
40	Crystal and molecular structure of Rh2(CO)(NBD)2(C8H8O); a reaction product of Rh6(CO)16 and norbornadiene. Journal of the Chemical Society Chemical Communications, 1975, , 562.	2.0	7
41	Magnetic properties of copper(II) salts of some carboxylic acids. The Journal of the Chemical Society A, Inorganic, Physicaloretical, 1966, , 1194.	0.7	6
42	Chemisorption and catalysis by metal clusters. Hydrogenation of ethene and hydrogenolysis of ethane catalysed by supported ruthenium clusters derived from Ru3(CO)12 and from H4Ru4(CO)12. Journal of the Chemical Society Faraday Transactions I, 1986, 82, 2719.	1.0	6
43	Air stability of catalysts derived from osmium and ruthenium cluster carbonyls. Journal of the Chemical Society Chemical Communications, 1982, , 85.	2.0	5
44	In situ spectroscopic evidence for facile, carbon monoxide mediated, reversible cleavage of neutral heterobimetallic rhodiumâ€“ruthenium complexes into ionic mononuclear complexes. Chemical Communications, 1996, , 2061-2062.	4.1	4
45	Catalytic Reactions Carried Out with Metals Derived from Clusters. , 1988, , 75-95.		4
46	The reaction of mixtures of [Rh4(CO)12] and triphenylphosphite with carbon monoxide or syngas as studied by high-resolution, high-pressure NMR spectroscopy. Magnetic Resonance in Chemistry, 2008, 46, S100-S106.	1.9	3
47	Coordination complexes of functionalized pyrazines with metal ions: reagents for the controlled release of flavourant molecules at elevated temperatures. Flavour and Fragrance Journal, 2006, 21, 202-206.	2.6	2
48	Lattice-Stabilized Complex Ions. Inorganic Syntheses, 2007, , 47-53.	0.3	1
49	Volcano relationships in metal cluster catalysis: An infrared spectroscopic monitor of site character. Reaction Kinetics and Catalysis Letters, 1999, 68, 45-52.	0.6	0