

Matt L Clarke

List of Publications by Year in descending order

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97
papers

4,193
citations

94269

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128067

60
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119
all docs

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docs citations

119
times ranked

3446
citing authors

#	ARTICLE	IF	CITATIONS
1	Rhodium catalysts derived from a fluorinated phanephos ligand are highly active catalysts for direct asymmetric reductive amination of secondary amines. <i>Tetrahedron</i> , 2021, 80, 131863.	1.0	6
2	Effect of Ligand Backbone on the Selectivity and Stability of Rhodium Hydroformylation Catalysts Derived from Phospholane-Phosphites. <i>Organometallics</i> , 2021, 40, 3966-3978.	1.1	13
3	Understanding Catalyst Structure–Selectivity Relationships in Pd-Catalyzed Enantioselective Methoxycarbonylation of Styrene. <i>Organometallics</i> , 2020, 39, 4544-4556.	1.1	17
4	Phospholane–Phosphite Ligands for Rh Catalyzed Enantioselective Conjugate Addition: Unusually Reactive Catalysts for Challenging Couplings. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 3071-3076.	1.2	2
5	Manganese-catalysed transfer hydrogenation of esters. <i>Chemical Communications</i> , 2020, 56, 8635-8638.	2.2	27
6	CO–Free Enantioselective Hydroformylation of Functionalised Alkenes: Using a Dual Catalyst System to Give Improved Selectivity and Yield. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 4334-4341.	2.1	10
7	Towards practical earth abundant reduction catalysis: design of improved catalysts for manganese catalysed hydrogenation. <i>Catalysis Science and Technology</i> , 2019, 9, 6047-6058.	2.1	38
8	STA-27, a porous Lewis acidic scandium MOF with an unexpected topology type prepared with 2,3,5,6-tetrakis(4-carboxyphenyl)pyrazine. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5685-5701.	5.2	22
9	A consecutive process for C–C and C–N bond formation with high enantio- and diastereo-control: direct reductive amination of chiral ketones using hydrogenation catalysts. <i>Chemical Communications</i> , 2019, 55, 6409-6412.	2.2	12
10	High <i>iso</i> Aldehyde Selectivity in the Hydroformylation of Short-Chain Alkenes. <i>Angewandte Chemie</i> , 2019, 131, 2142-2146.	1.6	9
11	High <i>iso</i> Aldehyde Selectivity in the Hydroformylation of Short-Chain Alkenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2120-2124.	7.2	38
12	Manganese Catalyzed Hydrogenation of Enantiomerically Pure Esters. <i>Organic Letters</i> , 2018, 20, 2654-2658.	2.4	54
13	Less hindered ligands give improved catalysts for the nickel catalysed Grignard cross-coupling of aromatic ethers. <i>Catalysis Science and Technology</i> , 2018, 8, 328-334.	2.1	8
14	A Bifunctional MOF Catalyst Containing Metal–Phosphine and Lewis Acidic Active Sites. <i>Chemistry - A European Journal</i> , 2018, 24, 15309-15318.	1.7	40
15	A Highly Active Manganese Catalyst for Enantioselective Ketone and Ester Hydrogenation. <i>Angewandte Chemie</i> , 2017, 129, 5919-5922.	1.6	64
16	A Highly Active Manganese Catalyst for Enantioselective Ketone and Ester Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5825-5828.	7.2	221
17	Diastereoselective and Branched-Aldehyde-Selective Tandem Hydroformylation–Hemiaminal Formation: Synthesis of Functionalized Piperidines and Amino Alcohols. <i>Organic Letters</i> , 2017, 19, 2845-2848.	2.4	19
18	Composition of catalyst resting states of hydroformylation catalysts derived from bulky mono-phosphorus ligands, rhodium dicarbonyl acetylacetonate and syngas. <i>Molecular Catalysis</i> , 2017, 434, 116-122.	1.0	9

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19	Understanding a Hydroformylation Catalyst that Produces Branched Aldehydes from Alkyl Alkenes. <i>Journal of the American Chemical Society</i> , 2017, 139, 15921-15932.	6.6	63
20	A Highly Enantioselective Alkene Methoxycarbonylation Enables a Concise Synthesis of (<i>S</i>)-Flurbiprofen. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 4859-4863.	1.2	27
21	Isomerisation versus carbonylative pathways in the hydroxy-carbonylation, methoxy-carbonylation, and amino-carbonylation of N-tosyl-3-pyrroline. <i>Catalysis Science and Technology</i> , 2016, 6, 7477-7485.	2.1	20
22	Remarkable co-catalyst effects on the enantioselective hydrogenation of unfunctionalised enamines: both enantiomers of product from the same enantiomer of catalyst. <i>Catalysis Science and Technology</i> , 2016, 6, 677-680.	2.1	10
23	A modular family of phosphine-phosphoramidite ligands and their hydroformylation catalysts: steric tuning impacts upon the coordination geometry of trigonal bipyramidal complexes of type [Rh(H)(CO) ₂ (P [*] P [*])]. <i>Catalysis Science and Technology</i> , 2016, 6, 118-124.	2.1	20
24	Rapid Asymmetric Transfer Hydroformylation (ATHF) of Disubstituted Alkenes Using Paraformaldehyde as a Syngas Surrogate. <i>Chemistry - A European Journal</i> , 2015, 21, 10645-10649.	1.7	35
25	On the Functional Group Tolerance of Ester Hydrogenation and Polyester Depolymerisation Catalysed by Ruthenium Complexes of Tridentate Aminophosphine Ligands. <i>Chemistry - A European Journal</i> , 2015, 21, 10851-10860.	1.7	70
26	Hydrogenation of unactivated enamines to tertiary amines: rhodium complexes of fluorinated phosphines give marked improvements in catalytic activity. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 622-627.	1.3	10
27	Catalytic Hydrogenation of Low-Reactivity Carbonyl Groups Using Bifunctional Chiral Tridentate Ligands. <i>Synlett</i> , 2014, 25, 1371-1380.	1.0	17
28	Mixed-Metal MIL-100(Sc,M) (M=Al, Cr, Fe) for Lewis Acid Catalysis and Tandem C-C Bond Formation and Alcohol Oxidation. <i>Chemistry - A European Journal</i> , 2014, 20, 17185-17197.	1.7	104
29	Rhodium/phospholane-phosphite catalysts give unusually high regioselectivity in the enantioselective hydroformylation of vinyl arenes. <i>Chemical Communications</i> , 2014, 50, 1475-1477.	2.2	40
30	Catalytic constructive deoxygenation of lignin-derived phenols: new C-C bond formation processes from imidazole-sulfonates and ether cleavage reactions. <i>Chemical Communications</i> , 2014, 50, 11511-11513.	2.2	10
31	Simultaneous control of regioselectivity and enantioselectivity in the hydroxycarbonylation and methoxycarbonylation of vinyl arenes. <i>Chemical Communications</i> , 2013, 49, 3306.	2.2	76
32	Highly enantioselective hydrogenation and transfer hydrogenation of cycloalkyl and heterocyclic ketones catalysed by an iridium complex of a tridentate phosphine-diamine ligand. <i>Chemical Communications</i> , 2013, 49, 10245.	2.2	23
33	The Stability of Imidazolidinones is the Primary Influence on the Catalytic Activity of Proline Amides and Proline Sulfonamides in Enamine Catalysis Using Alkyl Aldehyde Substrates. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 141-147.	1.2	3
34	Remarkable Lewis acid catalytic performance of the scandium trimesate metal organic framework MIL-100(Sc) for C-C and C-N bond-forming reactions. <i>Catalysis Science and Technology</i> , 2013, 3, 606-617.	2.1	136
35	Recent developments in the homogeneous hydrogenation of carboxylic acid esters. <i>Catalysis Science and Technology</i> , 2012, 2, 2418.	2.1	100
36	New phosphine-diamine and phosphine-amino-alcohol tridentate ligands for ruthenium catalysed enantioselective hydrogenation of ketones and a concise lactone synthesis enabled by asymmetric reduction of cyano-ketones. <i>Chemistry Central Journal</i> , 2012, 6, 151.	2.6	10

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37	Application of palladium (trioxo-adamantyl cage phosphine)chloride complexes as catalysts for the alkoxy-carbonylation of styrene; Pd catalysed tert-butoxycarbonylation of styrene. <i>Catalysis Science and Technology</i> , 2012, 2, 715.	2.1	17
38	Convenient and improved protocols for the hydrogenation of esters using Ru catalysts derived from (P,P), (P,N,N) and (P,N,O) ligands. <i>Dalton Transactions</i> , 2012, 41, 10136.	1.6	41
39	An Asymmetric Hydroformylation Catalyst that Delivers Branched Aldehydes from Alkyl Alkenes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2477-2480.	7.2	118
40	On the rate-determining step and the ligand electronic effects in rhodium catalysed hydrogenation of enamines and the hydroaminomethylation of alkenes. <i>Catalysis Science and Technology</i> , 2011, 1, 431.	2.1	36
41	Exploring the role of phosphorus substituents on the enantioselectivity of Ru-catalysed ketone hydrogenation using tridentate phosphine-diamine ligands. <i>Catalysis Science and Technology</i> , 2011, 1, 1336.	2.1	20
42	Synthesis of organocatalysts using non-covalent chemistry; understanding the reactivity of ProNap, an enamine-type organocatalyst that can self assemble with complementary co-catalysts. <i>Chemical Science</i> , 2011, 2, 1997.	3.7	34
43	Enantioselective Reduction of Benzofuranyl Aryl Ketones. <i>Synlett</i> , 2011, 2011, 65-68.	1.0	0
44	Regioselective and Enantioselective Hydroformylation of Dialkylacrylamides. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 1047-1054.	2.1	41
45	On the NH Effect in Ruthenium-Catalysed Hydrogenation of Ketones: Rational Design of Phosphine-Amino-Alcohol Ligands for Asymmetric Hydrogenation of Ketones. <i>Chemistry - A European Journal</i> , 2010, 16, 8002-8005.	1.7	57
46	Asymmetric Hydroformylation of an Enantiomerically Pure Bicyclic Lactam: Efficient Synthesis of Functionalised Cyclopentylamines. <i>Chemistry - A European Journal</i> , 2010, 16, 12788-12791.	1.7	27
47	Highly Enantioselective Hydroxycarbonylation and Alkoxy-carbonylation of Alkenes using Dipalladium Complexes as Precatalysts. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9197-9200.	7.2	104
48	Palladium complexes of bulky ortho-trifluoromethylphenyl-substituted phosphines: Unusually regioselective catalysts for the hydroxycarbonylation and alkoxy-carbonylation of alkenes. <i>Journal of Molecular Catalysis A</i> , 2010, 330, 18-25.	4.8	26
49	Palladium-catalysed Grignard cross-coupling using highly concentrated Grignards in methyl-tetrahydrofuran. <i>Green Chemistry</i> , 2010, 12, 381.	4.6	37
50	Enantioselective Hydrogenation and Transfer Hydrogenation of Bulky Ketones Catalysed by a Ruthenium Complex of a Chiral Tridentate Ligand. <i>Chemistry - A European Journal</i> , 2009, 15, 1227-1232.	1.7	68
51	Palladium(II) Complexes of New Bulky Bidentate Phosphanes: Active and Highly Regioselective Catalysts for the Hydroxycarbonylation of Styrene. <i>Chemistry - A European Journal</i> , 2009, 15, 10504-10513.	1.7	55
52	Enantiomerically Pure Bis(phosphanyl)carbaborane(12) Compounds. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2776-2788.	1.0	76
53	Palladium-catalysed $\text{P}\pi\text{C}$ bond forming reactions between diphenylphosphine and <i>ortho</i> -substituted aryl bromides. <i>Applied Organometallic Chemistry</i> , 2009, 23, 272-276.	1.7	30
54	Reaction of a rhodium(I) carbonyl complex of a para-dimethylaminophenyl substituted diphosphine with methyl iodide and hydrogen iodide. <i>Inorganica Chimica Acta</i> , 2009, 362, 4263-4267.	1.2	4

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55	Palladium-catalysed synthesis of aryl-alkyl ethers using alkoxysilanes as nucleophiles. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2645.	1.5	55
56	Iridium complexes of chiral diamines containing carbon and nitrogen stereocentres: synthesis, structure and evaluation as transfer hydrogenation catalysts. <i>New Journal of Chemistry</i> , 2009, 33, 466-470.	1.4	8
57	The carbonyl ene reaction. <i>Tetrahedron</i> , 2008, 64, 9003-9031.	1.0	171
58	A rationally designed cocatalyst for the Morita-Baylis-Hillman reaction. <i>Tetrahedron Letters</i> , 2008, 49, 4666-4669.	0.7	26
59	Microwave accelerated Suzuki coupling of chloro-aryl phosphine-oxides: A method for introducing diversity into phosphine ligands. <i>Journal of Molecular Catalysis A</i> , 2008, 284, 46-51.	4.8	8
60	Palladium complexes of new bulky fluorinated diphosphines give particularly active and regioselective catalysts for hydroxycarbonylation of styrene. <i>Dalton Transactions</i> , 2008, , 1976.	1.6	22
61	A supramolecular approach to chiral ligand modification: coordination chemistry of a multifunctionalised tridentate amine-phosphine ligand. <i>New Journal of Chemistry</i> , 2008, 32, 689.	1.4	17
62	A mechanistic investigation into the elimination of phosphonium salts from rhodium-TRIPHOS complexes under methanol carbonylation conditions. <i>Dalton Transactions</i> , 2008, , 4946.	1.6	9
63	Deoxygenation of Pyridine N-Oxides by Palladium-Catalysed Transfer Oxidation of Trialkylamines. <i>Synlett</i> , 2008, 2008, 2579-2582.	1.0	4
64	Enantio- and Diastereoselective Hydrogenation of a Fluorinated Diketone. <i>Synlett</i> , 2007, 2007, 1739-1741.	1.0	10
65	A highly efficient procedure for hydroformylation and hydroamino-vinylation of methyl acrylate. <i>Green Chemistry</i> , 2007, 9, 792.	4.6	39
66	Evaluation of C4 diphosphine ligands in rhodium catalysed methanol carbonylation under a syngas atmosphere: synthesis, structure, stability and reactivity of rhodium(i) carbonyl and rhodium(iii) acetyl intermediates. <i>Dalton Transactions</i> , 2007, , 5582.	1.6	31
67	Hydrogenation of Aldehydes, Esters, Imines, and Ketones Catalyzed by a Ruthenium Complex of a Chiral Tridentate Ligand. <i>Organometallics</i> , 2007, 26, 16-19.	1.1	120
68	The first organocatalytic carbonyl-ene reaction: isomerisation-free C-C bond formations catalysed by H-bonding thio-ureas. <i>Beilstein Journal of Organic Chemistry</i> , 2007, 3, 24.	1.3	10
69	A convenient catalyst system for microwave accelerated cross-coupling of a range of aryl boronic acids with aryl chlorides. <i>Beilstein Journal of Organic Chemistry</i> , 2007, 3, 18.	1.3	10
70	Self-Assembly of Organocatalysts: Fine-Tuning Organocatalytic Reactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 930-933.	7.2	167
71	Highly Regioselective Rhodium-Catalysed Hydroformylation of Unsaturated Esters: The First Practical Method for Quaternary Selective Carbonylation. <i>Chemistry - A European Journal</i> , 2006, 12, 7978-7986.	1.7	82
72	Phenylphosphatrioxa-adamantanes: bulky, robust, electron-poor ligands that give very efficient rhodium(i) hydroformylation catalysts. <i>Dalton Transactions</i> , 2005, , 1079.	1.6	82

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73	First Microwave-Accelerated Hiyama Coupling of Aryl- and Vinylsiloxane Derivatives: Clean Cross-Coupling of Aryl Chlorides within Minutes. <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 303-307.	2.1	62
74	Branched Selective Hydroformylation: A Useful Tool for Organic Synthesis. <i>Current Organic Chemistry</i> , 2005, 9, 701-718.	0.9	82
75	The Importance of Ligand Steric Effects on Transmetalation. <i>Organometallics</i> , 2005, 24, 6475-6478.	1.1	43
76	The electron-poor phosphines P{C6H3(CF3)2-3,5}3 and P(C6F5)3 do not mimic phosphites as ligands for hydroformylation. A comparison of the coordination chemistry of P{C6H3(CF3)2-3,5}3 and P(C6F5)3 and the unexpectedly low hydroformylation activity of their rhodium complexes. <i>Dalton Transactions</i> , 2005, , 1294.	1.6	63
77	Suzuki Coupling Reactions. , 2005, , 59-90.		1
78	Rhodium-Catalyzed Hydroformylation of Unsaturated Esters.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
79	Rhodium catalysed hydroformylation of unsaturated esters. <i>Tetrahedron Letters</i> , 2004, 45, 4043-4045.	0.7	34
80	One ponytail will do: new partially fluorinated phosphines with applications in fluorous biphasic solvent systems. <i>Journal of Organometallic Chemistry</i> , 2003, 665, 65-68.	0.8	5
81	Synthesis and transition metal chemistry of σ -phosphomide TM ligands: a comparison of the reactivity and electronic properties of diphenyl-P-perfluoro-octanoyl-phosphine, P-acetyl-diphenylphosphine and P-anisoyl-diphenylphosphine. X-ray crystal structure of [RhCp*(Ph2PC(O)CH3)Cl2]. <i>Journal of Organometallic Chemistry</i> , 2003, 667, 112-119.	0.8	33
82	Platinum complexes of tertiary amine functionalised phosphines. <i>Polyhedron</i> , 2003, 22, 19-26.	1.0	24
83	Organometallic chemistry of bromodifluoromethyl substituted phosphines. The development of a novel nickel catalysed P \rightarrow C bond forming reaction. <i>Dalton Transactions</i> , 2003, , 4393-4394.	1.6	22
84	Co-ordination chemistry and metal catalysed carbonylation reactions using 8-(diphenylphosphino)methylaminoquinoline: a ligand that displays monodentate, bidentate and tridentate co-ordination modes. <i>Dalton Transactions RSC</i> , 2002, , 1618-1624.	2.3	19
85	Highly electron rich alkyl- and dialkyl-N-pyrrolidinyl phosphines: an evaluation of their electronic and structural properties. <i>Dalton Transactions RSC</i> , 2002, , 1093-1103.	2.3	58
86	Preparation and coordination chemistry of Ph2P(CH2)nNHPiPr2 (n=2, 3). <i>Polyhedron</i> , 2002, 21, 2639-2645.	1.0	11
87	Synthesis and structure of novel rhodium complexes of multi-functionalised amine-phosphine ligands. <i>Dalton Transactions RSC</i> , 2001, , 3421-3429.	2.3	44
88	P \rightarrow N bond formation as a route to a highly electron rich bidentate phosphine ligand and its application in homogenous catalysis. <i>Dalton Transactions RSC</i> , 2001, , 969-971.	2.3	45
89	Synthesis and co-ordination chemistry of a novel multifunctional bis-phosphine containing a P \rightarrow N \rightarrow Si \rightarrow N \rightarrow P backbone. <i>Dalton Transactions RSC</i> , 2001, , 972-976.	2.3	24
90	Synthesis of bulky, electron rich hemilabile phosphines and their application in the Suzuki coupling reaction of aryl chlorides. <i>Dalton Transactions RSC</i> , 2001, , 2721-2723.	2.3	63

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91	Recent advances in homogeneous catalysis using platinum complexes. <i>Polyhedron</i> , 2001, 20, 151-164.	1.0	53
92	First examples of Mâ€“Seâ€“Pâ€“Nâ€“N heterocycles. <i>Inorganic Chemistry Communication</i> , 2001, 4, 115-118.	1.8	4
93	Co-Ordination Chemistry of a Novel Diphosphine Ligand Containing a P-N-Si-N-P Backbone. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2001, 169, 5-8.	0.8	1
94	Platinum-Catalysed Allylic Alkylation: Reactivity, Enantioselectivity, and Regioselectivity. <i>Chemistry - A European Journal</i> , 2000, 6, 353-360.	1.7	81
95	Pâ€“N bond formation as a route to highly electron rich phosphine ligands. <i>Chemical Communications</i> , 2000, , 2065-2066.	2.2	79
96	Synthesis and Structure of Enantiomerically Pure Platinum Complexes of Phosphino-oxazolines and Their Use in Asymmetric Catalysis. <i>Organometallics</i> , 1999, 18, 2867-2873.	1.1	57
97	Use of Tricyclohexylphosphine To Control Regiochemistry in Palladium-Catalyzed Allylic Alkylation. <i>Organic Letters</i> , 1999, 1, 1969-1971.	2.4	38