Philip Dyer

List of Publications by Year
in descending order

70 papers	2,102 citations	304602 22 h-index	254106 43 g-index
75 all docs	75 docs citations	75 times ranked	2300 citing authors

#	Article	IF	Citations
1	Linear organic Ï€-conjugated systems featuring the heavy Group 14 and 15 elements. Coordination Chemistry Reviews, 2003, 244, 1-44.	9.5	324
2	Macroalgae-Derived Biofuel: A Review of Methods of Energy Extraction from Seaweed Biomass. Energies, 2014, 7, 7194-7222.	1.6	246
3	Ambiphilic Diphosphineâ€“Borane Ligands: Metalâ†'Borane Interactions within Isoelectronic Complexes of Rhodium, Platinum and Palladium. Chemistry - A European Journal, 2008, 14, 731-740.	1.7	156
4	Quasi-Thermoneutral P â†' B Interactions within Di- and Tri-Phosphine Boranes. Inorganic Chemistry, 2007, 46, 5149-5151.	1.9	93
5	Rigid N-Phosphino Guanidine P,N Ligands and Their Use in Nickel-Catalyzed Ethylene Oligomerization. Organometallics, 2008, 27, 5082-5087.	1.1	78
6	The Rise of Organophosphorus Derivatives in Ï€-Conjugated Materials Chemistry. Topics in Current Chemistry, 0, , 127-163.	4.0	74
7	Thermochemical processing of macroalgae: a late bloomer in the development of third-generation biofuels?. Biofuels, 2012, 3, 441-461.	1.4	74
8	Four coordinate bis(imido) alkene complexes of molybdenum(IV): relatives of the zirconocene family. Journal of the Chemical Society Chemical Communications, 1992, , 1666.	2.0	60
9	Exploring the coordination chemistry and reactivity of dialkylamino- and bis(dialkylamino)-phosphines in the coordination sphere of metals. Dalton Transactions, 2003, , 104-113.	1.6	57
10	An Introduction to Pyrolysis and Catalytic Pyrolysis: Versatile Techniques for Biomass Conversion. , 2013, , 173-208.		52
11	Bridging Mï£¿Cl Bonds with Ambiphilic Phosphineâ€“Borane Ligands. Chemistry - an Asian Journal, 2009, 4, 428-435.	1.7	50
12	Stable (Aryl)(phosphino)carbenes:Â New Ligands for Transition Metals. Journal of the American Chemical Society, 2002, 124, 11834-11835.	6.6	47
13	Phosphanyl Methanimine (PCN) Ligands for the Selective Trimerization/Tetramerization of Ethylene with Chromium. ACS Catalysis, 2015, 5, 7095-7098.	5.5	44
14	A versatile route to well-defined molybdenum metathesis catalysts via mixed imido precursors: the molecular structure of [Mo(N-2,6-Pri 2C6H3)(N-But)(CH2CMe3)2]. Journal of the Chemical Society Chemical Communications, 1994, , 2547.	2.0	42
15	Copper(II)-mediated thermolysis of alginates: a model kinetic study on the influence of metal ions in the thermochemical processing of macroalgae. Interface Focus, 2013, 3, 20120046.	1.5	41
16	Four coordinate molybdenum alkene and alkyne complexes bearing ancillary imido ligands. Polyhedron, 1995, 14, 103-111.	1.0	39
17	Chelating N-pyrrolylphosphino-Nâ€²-arylaldimine ligands: synthesis, ligand behaviour and applications in catalysis. Dalton Transactions, 2006, , 5362-5378.	1.6	36
18	Novel bis(imido) complexes of molybdenum(VI): precursors to new alkene metathesis catalysts. Journal of the Chemical Society Chemical Communications, 1994, , 2247.	2.0	31

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19	Molybdenum(VI) complexes containing differing cis multiply-bonded ligands: Some structural consequences of competing Ï€-donor groups. Polyhedron, 1996, 15, 3001-3008.	1.0	30
20	Exploiting Nonâ€Innocent Ligands to Prepare Masked Palladium(0) Complexes. Angewandte Chemie - International Edition, 2010, 49, 7040-7044.	7.2	28
21	Mechanistic Study of the Calcination of Supported Chromium(III) Precursors for Ethene Polymerization Catalysts. The Journal of Physical Chemistry, 1996, 100, 11062-11066.	2.9	27
22	Four-versus five-co-ordinate bis(imido) alkene complexes of molybdenum: the contrasting effects of tert-butyl- and 2,6-diisopropylphenyl-imido substituents. Journal of the Chemical Society Dalton Transactions, 1995, , 3313.	1.1	24
23	Biodiesel Production via Trans-Esterification Using Pseudomonas cepacia Immobilized on Cellulosic Polyurethane. ACS Omega, 2018, 3, 6804-6811.	1.6	23
24	Dewatering treatments to increase dry matter content of the brown seaweed, kelp (Laminaria digitata) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.8	22
25	The First Structural Characterization of a [2.2]PHANEPHOSâ^'Transition-Metal Complex:Â Structure ofrac-[Pd(4,12-bis(diphenylphosphino)[2.2]paracyclophane)Cl2]. Organometallics, 1998, 17, 4344-4346.	1.1	20
26	Diphenylphosphino(phenyl pyridin-2-yl methylene)amine palladium(II) complexes: Chemoselective alkene hydrocarboxylation initiators. Journal of Organometallic Chemistry, 2005, 690, 5264-5281.	0.8	19
27	Insoluble Perfluoroalkylated Polymers: New Solid Supports for Supported Fluorous Phase Catalysis. Advanced Synthesis and Catalysis, 2010, 352, 2241-2250.	2.1	18
28	Exploring the reactivity of tungsten bis(imido) dimethyl complexes with methyl aluminium reagents: implications for ethylene dimerization. Dalton Transactions, 2010, 39, 7038.	1.6	18
29	Species variation in the effects of dewatering treatment on macroalgae. Journal of Applied Phycology, 2018, 30, 2305-2316.	1.5	17
30	Theoretical Study of Rhodium(I) Carbene Complexes: The Structural Versatility of Phosphino- Compared with Aminocarbenes. Chemistry - A European Journal, 2003, 9, 5858-5864.	1.7	16
31	Concise syntheses of tridentate PNE ligands and their coordination chemistry with palladium(ii) : a solution- and solid-state study. Dalton Transactions, 2006, , 4134.	1.6	16
32	The oxidative addition of a chlorophosphine to Pd0: formation and characterisation of a 42-electron triangulo palladium clusterElectronic supplementary information (ESI) available: General considerations and syntheses. See http://www.rsc.org/suppdata/dt/b4/b408519a/. Dalton Transactions, 2004, , 2400.	1.6	15
33	Hydroformylation by Ptâ€“Sn compounds from N-heterocyclic stannylenes. Dalton Transactions, 2012, 41, 7457.	1.6	15
34	A remarkable example of co-crystallisation: the crystal structure of the mononuclear and dinuclear diphenyl[2.2]paracyclophanylphosphine palladium(II) chloride complexes trans-[Pd{PPh2(C16H15)}2Cl2]Â·[Pd{PPh2(C16H15)}Cl2]2Â·0.6CH2Cl2. Chemical Communications, 1998, , 1375-1376.	2.2	14
35	Application of molybdenum bis(imido) complexes in ethylene dimerisation catalysis. Dalton Transactions, 2012, 41, 5502.	1.6	14
36	Combined DFT and experimental studies of Câ€“C and Câ€“X elimination reactions promoted by a chelating phosphineâ€“alkene ligand: the key role of penta-coordinate PdII. Dalton Transactions, 2014, 43, 11165.	1.6	14

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37	Synthesis, structural characterisation and reactivity of the d2 pseudo-metallocene complex Mo(N-2,6-iPr2C6H3)2(PMe3)2. Journal of Organometallic Chemistry, 1993, 462, C15-C17.	0.8	13
38	A Truly Multifunctional Heterocycle: Iminophosphorane, N,Pâ€…Chelate, and Dihydropyridine. Angewandte Chemie - International Edition, 2008, 47, 8674-8677.	7.2	13
39	From Cyclic Iminophosphoranes to Ï€â€Conjugated Materials. Angewandte Chemie - International Edition, 2009, 48, 9109-9113.	7.2	12
40	Phosphineâ€“alkene ligand-mediated alkylâ€“alkyl and alkylâ€“halide elimination processes from palladium(ii). Chemical Communications, 2012, 48, 10413.	2.2	12
41	Changes in higher heating value and ash content of seaweed during ensiling. Journal of Applied Phycology, 2017, 29, 1037-1046.	1.5	12
42	N-Cyano-P-hydrogenoiminophosphorane-Trimethylchlorostannane Adducts [R2P(H):N-C.tplbond.N.cntdot.Me3SnCl] and Related Species: Building Blocks for Bis(carbodiimides) of Phosphorus. Inorganic Chemistry, 1994, 33, 5639-5642.	1.9	11
43	A new reaction involving 1,5-diazabicyclo[4.3.0]non-5-ene as a nucleophile and a two proton donor. Journal of the Chemical Society Chemical Communications, 1995, , 2339.	2.0	11
44	N-Phosphino-amidines and -guanidines: synthesis, structure and P,N-chelate chemistry. Dalton Transactions, 2008, , 1043.	1.6	11
45	Bis(Imido) Tungsten Complexes: Efficient Precatalysts for the Homogeneous Dimerization of Ethylene. ACS Catalysis, 2018, 8, 11249-11263.	5.5	10
46	The â€˜one-potâ€™ syntheses of Î±,Î±â€²-diphosphino-substituted imines: a unique reaction of bulky bis(dialkylamino)chlorophosphines. New Journal of Chemistry, 2001, 25, 591-596.	1.4	9
47	Exploration of Homogeneous Ethylene Dimerization Mediated by Tungsten Mono(imido) Complexes. ACS Catalysis, 2018, 8, 11235-11248.	5.5	9
48	Unexpected synthesis of a binuclear chromium(III) salt exhibiting Nî—¸Hâ€¦Cl hydrogen-bonding interactions. Polyhedron, 1995, 14, 3095-3098.	1.0	8
49	The Role of Catalyst Support, Diluent and Co-Catalyst in Chromium-Mediated Heterogeneous Ethylene Trimerisation. Topics in Catalysis, 2018, 61, 213-224.	1.3	8
50	Effect of weak hydrogen bonding and included solvent on the crystal structure of the square-planar complex trans-Pt{PPh2(C16H15)}2Cl2. New Journal of Chemistry, 1998, 22, 1311-1313.	1.4	7
51	The synthesis and catalytic application of spacer-modified diol-functionalised Merrifield resins. Tetrahedron Letters, 2005, 46, 4753-4756.	0.7	7
52	Ketone Formation via Decarboxylation Reactions of Fatty Acids Using Solid Hydroxide/Oxide Catalysts. Inorganics, 2018, 6, 121.	1.2	7
53	Additives boosting the performance of tungsten imido-mediated ethylene dimerization systems for industrial application. Chemical Communications, 2020, 56, 6886-6889.	2.2	6
54	Polymerisation of methyl methacrylate in supercritical difluoromethane. Green Chemistry, 2004, 6, 81.	4.6	5

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55	Sterically-controlled regioselective para-substitutions of aniline. Chemical Communications, 2005, , 3835.	2.2	5
56	Dibenzylbis(tert-butylimido)molybdenum(VI), containing both Î·1- and Î·2-benzyl ligands. Acta Crystallographica Section C: Crystal Structure Communications, 1999, 55, 916-918.	0.4	4
57	The First Coordination of an (Î±-Diazo)phosphine to a Transition-Metal Center. Organometallics, 2003, 22, 1358-1360.	1.1	4
58	Analysis of air-, moisture- and solvent-sensitive chemical compounds by mass spectrometry using an inert atmospheric pressure solids analysis probe. European Journal of Mass Spectrometry, 2018, 24, 74-80.	0.5	4
59	Activated Niobium and Tantalum Imido Complexes: From Tuneable Polymerization to Selective Ethylene Dimerization Systems. ChemCatChem, 2019, 11, 1756-1764.	1.8	3
60	Opening the Egg Box: NMR spectroscopic analysis of the interactions between s-block cations and kelp monosaccharides. Dalton Transactions, 2021, 50, 13246-13255.	1.6	3
61	Dalton Discussion 12: Catalytic Câ€“H and Câ€“X bond activation (DD12). Dalton Transactions, 2010, 39, 10335.	1.6	2
62	Conversion of butanol to propene in flow: A triple dehydration, isomerisation and metathesis cascade. Catalysis Communications, 2022, 164, 106421.	1.6	2
63	Process-oriented approach towards catalyst design and optimisation. Catalysis Communications, 2022, 163, 106392.	1.6	2
64	Solution-state behaviour of algal mono-uronates evaluated by pure shift and compressive sampling NMR techniques. Carbohydrate Research, 2020, 495, 108087.	1.1	1
65	Selective dimerisation of 1-hexene mediated by aluminium alkyl chloride-activated tungsten imido complexes. Catalysis Science and Technology, 0, , .	2.1	1
66	The Synthesis and Catalytic Application of Spacer-Modified Diol-Functionalized Merrifield Resins.. ChemInform, 2005, 36, no.	0.1	0
67	Sterically-Controlled Regioselective para-Substitutions of Aniline.. ChemInform, 2005, 36, no.	0.1	0
68	Design ofÏ€-Conjugated Systems Using Organophosphorus Building Blocks. , 0, , 119-177.		0
69	German Support of Lenin During World War I. Australian Journal of Politics and History, 2008, 30, 46-55.	0.1	0
70	An Improved Test Facility for Studying Deposit Fouling on Steam Turbine Blades. , 2016, , .		0