

George J P Britovsek

List of Publications by Year in descending order

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86
papers

14,186
citations

61945

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51562

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93
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93
times ranked

12164
citing authors

#	ARTICLE	IF	CITATIONS
1	The Path Forward for Biofuels and Biomaterials. <i>Science</i> , 2006, 311, 484-489.	6.0	4,935
2	The Search for New-Generation Olefin Polymerization Catalysts: Life beyond Metallocenes. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 428-447.	7.2	1,707
3	Iron and Cobalt Ethylene Polymerization Catalysts Bearing 2,6-Bis(Imino)Pyridyl Ligands: Synthesis, Structures, and Polymerization Studies. <i>Journal of the American Chemical Society</i> , 1999, 121, 8728-8740.	6.6	1,011
4	Novel olefin polymerization catalysts based on iron and cobalt. <i>Chemical Communications</i> , 1998, , 849-850.	2.2	990
5	Oligomerisation of Ethylene by Bis(imino)pyridyliron and -cobalt Complexes. <i>Chemistry - A European Journal</i> , 2000, 6, 2221-2231.	1.7	333
6	Palladium(II) complexes containing mono-, bi- and tridentate carbene ligands. Synthesis, characterisation and application as catalysts in C–C coupling reactions. <i>Journal of Organometallic Chemistry</i> , 2001, 617-618, 546-560.	0.8	310
7	Non-heme Iron(II) Complexes Containing Tripodal Tetradentate Nitrogen Ligands and Their Application in Alkane Oxidation Catalysis. <i>Inorganic Chemistry</i> , 2005, 44, 8125-8134.	1.9	293
8	Iron Catalyzed Polyethylene Chain Growth on Zinc: A Study of the Factors Delineating Chain Transfer versus Catalyzed Chain Growth in Zinc and Related Metal Alkyl Systems. <i>Journal of the American Chemical Society</i> , 2004, 126, 10701-10712.	6.6	251
9	Polyethylene Chain Growth on Zinc Catalyzed by Olefin Polymerization Catalysts: A Comparative Investigation of Highly Active Catalyst Systems across the Transition Series. <i>Journal of the American Chemical Society</i> , 2005, 127, 9913-9923.	6.6	225
10	Iron-Catalyzed Polyethylene Chain Growth on Zinc: Linear \pm -Olefins with a Poisson Distribution. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 489-491.	7.2	189
11	Iron and Cobalt Ethylene Polymerization Catalysts: Variations on the Central Donor. <i>Inorganic Chemistry</i> , 2003, 42, 3454-3465.	1.9	165
12	The role of bulky substituents in the polymerization of ethylene using late transition metal catalysts: a comparative study of nickel and iron catalyst systems. <i>Inorganica Chimica Acta</i> , 2003, 345, 279-291.	1.2	148
13	From B(C ₆ F ₅) ₃ to B(OC ₆ F ₅) ₃ : Synthesis of (C ₆ F ₅) ₂ BOC ₆ F ₅ and C ₆ F ₅ B(OC ₆ F ₅) ₂ and Their Relative Lewis Acidity. <i>Organometallics</i> , 2005, 24, 1685-1691.	1.1	148
14	Cationic 2,6-bis(imino)pyridine iron and cobalt complexes: synthesis, structures, ethylene polymerisation and ethylene/polar monomer co-polymerisation studies. <i>Dalton Transactions RSC</i> , 2002, , 1159.	2.3	142
15	EPR Spectroscopic Trapping of the Active Species of Nonheme Iron-Catalyzed Oxidation. <i>Journal of the American Chemical Society</i> , 2009, 131, 10798-10799.	6.6	137
16	Ligand Topology Variations and the Importance of Ligand Field Strength in Non-Heme Iron Catalyzed Oxidations of Alkanes. <i>Inorganic Chemistry</i> , 2007, 46, 3752-3767.	1.9	131
17	Bis(imino)pyridyl iron and cobalt complexes: the effect of nitrogen substituents on ethylene oligomerisation and polymerisation. <i>Dalton Transactions RSC</i> , 2001, , 1639-1644.	2.3	120
18	Polyethylene terephthalate degradation under natural and accelerated weathering conditions. <i>European Polymer Journal</i> , 2020, 136, 109873.	2.6	120

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19	The nature of the active site in bis(imino)pyridine iron ethylene polymerisation catalysts. <i>Catalysis Communications</i> , 2002, 3, 207-211.	1.6	112
20	Distinguishing Chain Growth Mechanisms in Metal-catalyzed Olefin Oligomerization and Polymerization Systems: C ₂ H ₄ /C ₂ D ₄ Co-oligomerization/Polymerization Experiments Using Chromium, Iron, and Cobalt Catalysts. <i>Organometallics</i> , 2009, 28, 7033-7040.	1.1	107
21	Synthesis of iron(ii), manganese(ii) cobalt(ii) and ruthenium(ii) complexes containing tridentate nitrogen ligands and their application in the catalytic oxidation of alkanes. <i>Dalton Transactions</i> , 2005, , 945.	1.6	99
22	Towards robust alkane oxidation catalysts: electronic variations in non-heme iron(ii) complexes and their effect in catalytic alkane oxidation. <i>Dalton Transactions</i> , 2009, , 5319.	1.6	92
23	Imine Versus Amine Donors in Iron-Based Ethylene Polymerisation Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 431-437.	1.0	89
24	Catalyst Stability Determines the Catalytic Activity of Non-Heme Iron Catalysts in the Oxidation of Alkanes. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 883-897.	2.1	86
25	Catalytic hydrogenolysis of ethanol organosolv lignin. <i>Holzforschung</i> , 2009, 63, 513-520.	0.9	83
26	The effect of the central donor in bis(benzimidazole)-based cobalt catalysts for the selective cis-1,4-polymerisation of butadiene. <i>Dalton Transactions</i> , 2010, 39, 9039.	1.6	79
27	Hemilabile P,O-ligands in palladium catalysed C=C linkages: codimerization of ethylene and styrene and co-oligomerization of ethylene and carbon monoxide. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, .	2.0	77
28	The effect of imine-carbon substituents in bis(imino)pyridine-based ethylene polymerisation catalysts across the transition series. <i>Catalysis Science and Technology</i> , 2012, 2, 643.	2.1	74
29	Highly active ethylene polymerisation catalysts based on iron: an ab initio study. <i>Chemical Communications</i> , 1999, , 1333-1334.	2.2	71
30	Single- and Double-Coordination Mechanism in Ethylene Tri- and Tetramerization with Cr/PNP Catalysts. <i>ACS Catalysis</i> , 2015, 5, 4152-4166.	5.5	70
31	Ethylene Oligomerization beyond Schulz-Flory Distributions. <i>ACS Catalysis</i> , 2015, 5, 6922-6925.	5.5	70
32	Iron(ii), manganese(ii) and cobalt(ii) complexes containing tetradentate biphenyl-bridged ligands and their application in alkane oxidation catalysis. <i>Dalton Transactions</i> , 2006, , 1399.	1.6	65
33	Towards Photocatalytic Alkane Oxidation: The Insertion of Dioxygen into a Platinum(II)-Methyl Bond. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5900-5903.	7.2	65
34	Lewis Acids and Lewis Acid-Functionalized Ligands in Rhodium-Catalyzed Methyl Acetate Carbonylation. <i>Organometallics</i> , 2011, 30, 4060-4066.	1.1	58
35	Electronic effects in oxo transfer reactions catalysed by salan molybdenum(vi) cis-dioxo complexes. <i>Dalton Transactions</i> , 2009, , 2337.	1.6	57
36	Enantioselective synthesis of 3-amino-2-azetidinones via the ester enolate - imine condensation. <i>Journal of Organic Chemistry</i> , 1992, 57, 3906-3916.	1.7	53

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37	Iron-based ethylene polymerization catalysts supported by bis(imino)pyridine ligands: Derivatization via deprotonation/alkylation at the ketimine methyl position. <i>Journal of Molecular Catalysis A</i> , 2007, 261, 293-300.	4.8	51
38	Thio-Pybox and Thio-Phebox complexes of chromium, iron, cobalt and nickel and their application in ethylene and butadiene polymerisation catalysis. <i>Dalton Transactions</i> , 2012, 41, 5949.	1.6	51
39	From Lignin to Chemicals: Hydrogenation of Lignin Models and Mechanistic Insights into Hydrodeoxygenation via Low-Temperature C=O Bond Cleavage. <i>ACS Catalysis</i> , 2019, 9, 2345-2354.	5.5	48
40	Heavy Metal Sensing Using Self-Assembled Nanoparticles at a Liquid-Liquid Interface. <i>Advanced Optical Materials</i> , 2014, 2, 966-977.	3.6	47
41	Unraveling the origins of catalyst degradation in non-heme iron-based alkane oxidation. <i>Dalton Transactions</i> , 2014, 43, 17108-17119.	1.6	47
42	Oxygen Insertion into Metal Carbon Bonds: Formation of Methylperoxo Pd(II) and Pt(II) Complexes via Photogenerated Dinuclear Intermediates. <i>Journal of the American Chemical Society</i> , 2014, 136, 14089-14099.	6.6	41
43	The effect of fluorination on the luminescent behaviour of 8-hydroxyquinoline boron compounds. <i>New Journal of Chemistry</i> , 2008, 32, 1379.	1.4	40
44	A DFT Mechanistic Study on Ethylene Tri- and Tetramerization with Cr/PNP Catalysts: Single versus Double Insertion Pathways. <i>Chemistry - A European Journal</i> , 2016, 22, 16891-16896.	1.7	40
45	Cationic methylpalladium(II) complexes containing bidentate N=O ligands as catalysts for the copolymerisation of CO and ethylene. Identification and isolation of intermediates from the stepwise insertion reactions, and subsequent detailed mechanistic interpretation. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, 1137-1144.	1.1	39
46	Acetylene Cyclotrimerization with an Iron(II) Bis(imino)pyridine Catalyst. <i>Organometallics</i> , 2012, 31, 3439-3442.	1.1	38
47	Synthesis and characterisation of luminescent fluorinated organoboron compounds. <i>Dalton Transactions</i> , 2007, 1425.	1.6	37
48	Iron(II) Complexes with Tetradentate Bis(aminophenolate) Ligands: Synthesis and Characterization, Solution Behavior, and Reactivity with O ₂ . <i>Inorganic Chemistry</i> , 2010, 49, 11106-11117.	1.9	36
49	Ligand tuning of single-site manganese-based catalytic antioxidants with dual superoxide dismutase and catalase activity. <i>Chemical Communications</i> , 2014, 50, 4607-4609.	2.2	35
50	Ethene insertion into a palladium-acetyl bond: crystal structure of [Pd(CH ₂ CH ₂ COMe)(NC ₅ H ₄ CO ₂ Me-2)(PPh ₃)]BF ₄ , a novel reaction intermediate from the insertion process. <i>Chemical Communications</i> , 1996, 1563-1564.	2.2	33
51	First metal complexes of 6,6'-dihydroxy-2,2'-bipyridine: from molecular wires to applications in carbonylation catalysis. <i>Dalton Transactions</i> , 2011, 40, 1031-1033.	1.6	31
52	Hemilabile ligands in palladium catalysed C=C linkages: the effect of the donor atom in the codimerisation of styrene with ethylene. <i>Journal of Molecular Catalysis A</i> , 1996, 110, 77-87.	4.8	30
53	Cationic methyl-palladium(II) complexes containing bidentate N=O and P=O ligands and a tridentate P=O N=O ligand: Synthesis, carbonylation and catalytic applications in the copolymerisation of carbon monoxide and ethene. <i>Journal of Organometallic Chemistry</i> , 1997, 533, 201-212.	0.8	30
54	Mechanistic study of ethylene tri- and tetramerisation with Cr/PNP catalysts: effects of additional donors. <i>Catalysis Science and Technology</i> , 2016, 6, 8234-8241.	2.1	30

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55	Tri(pyridylmethyl)phosphine: The Elusive Congener of TPA Shows Surprisingly Different Coordination Behavior. <i>Inorganic Chemistry</i> , 2013, 52, 7000-7009.	1.9	29
56	Protonation of Platinum(II) Dialkyl Complexes Containing Ligands with Proximate H-Bonding Substituents. <i>Organometallics</i> , 2006, 25, 2074-2079.	1.1	28
57	Ethylene Trimerisation with Cr-PNP Catalysts: A Theoretical Benchmarking Study and Assessment of Catalyst Oxidation State. <i>Australian Journal of Chemistry</i> , 2014, 67, 1481.	0.5	28
58	Hydrogen bonding directs the H ₂ O ₂ oxidation of platinum(ii) to a cis-dihydroxo platinum(iv) complex. <i>Chemical Communications</i> , 2008, , 2800.	2.2	26
59	Heterogeneous iron containing carbon catalyst (Fe-N/C) for epoxidation with molecular oxygen. <i>Journal of Catalysis</i> , 2019, 370, 357-363.	3.1	23
60	Dicarbonylrhodium(I) Complexes of Bipyridine Ligands with Proximate H-Bonding Substituents and Their Application in Methyl Acetate Carbonylation. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3511-3522.	1.0	22
61	Coordination Equilibria Between Seven- and Five-coordinate Iron(II) Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 11867-11874.	1.9	21
62	Alternating $\hat{1}\pm$ -Olefin Distributions via Single and Double Insertions in Chromium-Catalyzed Ethylene Oligomerization. <i>Organometallics</i> , 2017, 36, 510-522.	1.1	21
63	A DFT-based mechanistic proposal for the light-driven insertion of dioxygen into Pt(ii) \hat{a} €C bonds. <i>Chemical Science</i> , 2018, 9, 5039-5046.	3.7	18
64	Synthesis and reactivity of water-soluble platinum(II) complexes containing nitrogen ligands. <i>Journal of Organometallic Chemistry</i> , 2003, 679, 110-115.	0.8	16
65	A strong-field pentadentate ligand in iron-based alkane oxidation catalysis and implications for iron(iv) oxo intermediates. <i>Catalysis Science and Technology</i> , 2013, 3, 1116.	2.1	16
66	Carbodeoxygenation of Biomass: The Carbonylation of Glycerol and Higher Polyols to Monocarboxylic Acids. <i>Chemistry - A European Journal</i> , 2013, 19, 6840-6844.	1.7	16
67	The Mathematics of Ethylene Oligomerisation \hat{A} nd Polymerisation. <i>Topics in Catalysis</i> , 2020, 63, 294-318.	1.3	16
68	C \hat{a} €H benzylic oxidation promoted by dinuclear iron DBDOC iminopyridine complexes. <i>Inorganica Chimica Acta</i> , 2015, 431, 156-160.	1.2	15
69	High-Valent Iron in Biomimetic Alkane Oxidation Catalysis. <i>Topics in Organometallic Chemistry</i> , 2015, , 145-171.	0.7	13
70	From alternating to selective distributions in chromium-catalysed ethylene oligomerisation with asymmetric BIMA ligands. <i>Catalysis Science and Technology</i> , 2018, 8, 1314-1321.	2.1	12
71	Light-Driven Methyl Exchange Reactions in Square-Planar Palladium(II) and Platinum(II) Complexes. <i>Organometallics</i> , 2014, 33, 1453-1461.	1.1	11
72	Lewis and Br \hat{A} nsted multifunctionality: an unusual heterocycle from the reaction of bis(pentafluorophenyl)borinic acid with nitriles. <i>Chemical Communications</i> , 2006, , 1295.	2.2	10

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73	Novel iminopyridine derivatives: ligands for preparation of Fe(II) and Cu(II) dinuclear complexes. Dalton Transactions, 2016, 45, 3564-3576.	1.6	9
74	Understanding the Catalase-Like Activity of a Bioinspired Manganese(II) Complex with a Pentadentate NSNSN Ligand Framework. A Computational Insight into the Mechanism. ACS Catalysis, 2018, 8, 2944-2958.	5.5	9
75	gem -Dialkyl Effect in Diphosphine Ligands: Synthesis, Coordination Behavior, and Application in Pd-Catalyzed Hydroformylation. ACS Catalysis, 2020, 10, 663-671.	5.5	9
76	High activity acetylene polymerisation with a bis(imino)pyridine iron(II) catalyst. Chemical Communications, 2011, 47, 6945.	2.2	8
77	Using molecular oxygen and Fe N/C heterogeneous catalysts to achieve Mukaiyama epoxidations <i>via in situ</i> produced organic peroxy acids and acylperoxy radicals. Catalysis Science and Technology, 2022, 12, 2978-2989.	2.1	8
78	Photolytic Activation of Late-Transition-Metal C Carbon Bonds and Their Reactivity toward Oxygen. Organometallics, 2021, 40, 4077-4091.	1.1	8
79	Directing Selectivity to Aldehydes, Alcohols, or Esters with Diphobane Ligands in Pd-Catalyzed Alkene Carbonylations. Organometallics, 2021, 40, 1914-1925.	1.1	7
80	Divergent reactivity of platinum(II) and palladium(II) methylperoxo complexes and the formation of an unusual hemi-aminal complex. Dalton Transactions, 2016, 45, 14520-14523.	1.6	6
81	Evaluation of mid-to-late transition metal imine catalysts for acetylene oligomerisation: A high activity bis(imino)pyridine iron(II) catalyst. Catalysis Today, 2011, 178, 64-71.	2.2	5
82	Single- and double-bridged PNP ligands in chromium-catalysed ethylene oligomerisation. Catalysis Science and Technology, 2022, 12, 4544-4551.	2.1	4
83	Biaryl Group 4 Metal Complexes as Non Metalloocene Catalysts for Polyethylene with Long Chain Branching. European Journal of Inorganic Chemistry, 2020, 2020, 4088-4092.	1.0	3
84	The Search for New-Generation Olefin Polymerization Catalysts: Life beyond Metallocenes. , 1999, 38, 428.		2
85	The Search for New-Generation Olefin Polymerization Catalysts: Life beyond Metallocenes. , 1999, 38, 428.		2
86	Homogeneous Catalysts. Activity - Stability - Deactivation. Von Piet W . N . M . van Leeuwen und John C . Chadwick.. Angewandte Chemie, 2012, 124, 1548-1548.	1.6	0