

George J P Britovsek

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Using molecular oxygen and Fe-N/C heterogeneous catalysts to achieve Mukaiyama epoxidations <i>in situ</i> produced organic peroxy acids and acylperoxy radicals. <i>Catalysis Science and Technology</i> , 2022, 12, 2978-2989.	2.1	8
2	Single- and double-bridged PNP ligands in chromium-catalysed ethylene oligomerisation. <i>Catalysis Science and Technology</i> , 2022, 12, 4544-4551.	2.1	4
3	Directing Selectivity to Aldehydes, Alcohols, or Esters with Diphobane Ligands in Pd-Catalyzed Alkene Carbonylations. <i>Organometallics</i> , 2021, 40, 1914-1925.	1.1	7
4	Photolytic Activation of Late-Transition-Metal-Carbon Bonds and Their Reactivity toward Oxygen. <i>Organometallics</i> , 2021, 40, 4077-4091.	1.1	8
5	<i>gem</i> -Dialkyl Effect in Diphosphine Ligands: Synthesis, Coordination Behavior, and Application in Pd-Catalyzed Hydroformylation. <i>ACS Catalysis</i> , 2020, 10, 663-671.	5.5	9
6	Polyethylene terephthalate degradation under natural and accelerated weathering conditions. <i>European Polymer Journal</i> , 2020, 136, 109873.	2.6	120
7	Biaryl Group 4 Metal Complexes as Non-Metallocene Catalysts for Polyethylene with Long Chain Branching. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4088-4092.	1.0	3
8	The Mathematics of Ethylene Oligomerisation and Polymerisation. <i>Topics in Catalysis</i> , 2020, 63, 294-318.	1.3	16
9	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
10	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
11	Understanding the Catalase-Like Activity of a Bioinspired Manganese(II) Complex with a Pentadentate NSNSN Ligand Framework. A Computational Insight into the Mechanism. <i>ACS Catalysis</i> , 2018, 8, 2944-2958.	5.5	9
12	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
13	A DFT-based mechanistic proposal for the light-driven insertion of dioxygen into Pt(II)-C bonds. <i>Chemical Science</i> , 2018, 9, 5039-5046.	3.7	18
14	Alternating \pm -Olefin Distributions via Single and Double Insertions in Chromium-Catalyzed Ethylene Oligomerization. <i>Organometallics</i> , 2017, 36, 510-522.	1.1	21
15	A DFT Mechanistic Study on Ethylene Tri- and Tetramerization with Cr/PPN Catalysts: Single versus Double Insertion Pathways. <i>Chemistry - A European Journal</i> , 2016, 22, 16891-16896.	1.7	40
16	Mechanistic study of ethylene tri- and tetramerisation with Cr/PPN catalysts: effects of additional donors. <i>Catalysis Science and Technology</i> , 2016, 6, 8234-8241.	2.1	30
17	Divergent reactivity of platinum(II) and palladium(II) methylperoxo complexes and the formation of an unusual hemi-aminal complex. <i>Dalton Transactions</i> , 2016, 45, 14520-14523.	1.6	6
18	Novel iminopyridine derivatives: ligands for preparation of Fe(II) and Cu(II) dinuclear complexes. <i>Dalton Transactions</i> , 2016, 45, 3564-3576.	1.6	9

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19	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
20	Câ€“H benzylic oxidation promoted by dinuclear iron DBDOC iminopyridine complexes. <i>Inorganica Chimica Acta</i> , 2015, 431, 156-160.	1.2	15
21	High-Valent Iron in Biomimetic Alkane Oxidation Catalysis. <i>Topics in Organometallic Chemistry</i> , 2015, , 145-171.	0.7	13
22	Ethylene Oligomerization beyond Schulzâ€™Flory Distributions. <i>ACS Catalysis</i> , 2015, 5, 6922-6925.	5.5	70
23	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
24	Heavy Metal Sensing Using Selfâ€“Assembled Nanoparticles at a Liquidâ€“Liquid Interface. <i>Advanced Optical Materials</i> , 2014, 2, 966-977.	3.6	47
25	Unraveling the origins of catalyst degradation in non-heme iron-based alkane oxidation. <i>Dalton Transactions</i> , 2014, 43, 17108-17119.	1.6	47
26	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
27	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
28	Light-Driven Methyl Exchange Reactions in Square-Planar Palladium(II) and Platinum(II) Complexes. <i>Organometallics</i> , 2014, 33, 1453-1461.	1.1	11
29	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
30	Coordination Equilibria Between Seven- and Five-coordinate Iron(II) Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 11867-11874.	1.9	21
31	Tri(pyridylmethyl)phosphine: The Elusive Congener of TPA Shows Surprisingly Different Coordination Behavior. <i>Inorganic Chemistry</i> , 2013, 52, 7000-7009.	1.9	29
32	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
33	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
34	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
35	Acetylene Cyclotrimerization with an Iron(II) Bis(imino)pyridine Catalyst. <i>Organometallics</i> , 2012, 31, 3439-3442.	1.1	38
36	Homogeneous Catalysts. Activity - Stability - Deactivation. Von Pietâ€™.W.â€™.N.â€™.M. vanâ€™.Leeuwen und Johnâ€™.C. Chadwick.. <i>Angewandte Chemie</i> , 2012, 124, 1548-1548.	1.6	0

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37	Lewis Acids and Lewis Acid-Functionalized Ligands in Rhodium-Catalyzed Methyl Acetate Carbonylation. <i>Organometallics</i> , 2011, 30, 4060-4066.	1.1	58
38	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
39	Evaluation of mid-to-late transition metal imine catalysts for acetylene oligomerisation: A high activity bis(imino)pyridine iron(II) catalyst. <i>Catalysis Today</i> , 2011, 178, 64-71.	2.2	5
40	High activity acetylene polymerisation with a bis(imino)pyridine iron(ii) catalyst. <i>Chemical Communications</i> , 2011, 47, 6945.	2.2	8
41	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
42	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
43	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
44	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
45	Electronic effects in oxo transfer reactions catalysed by salan molybdenum(vi) cis-dioxo complexes. <i>Dalton Transactions</i> , 2009, , 2337.	1.6	57
46	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
47	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
48	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
49	Catalytic hydrogenolysis of ethanol organosolv lignin. <i>Holzforschung</i> , 2009, 63, 513-520.	0.9	83
50	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
51	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
52	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
53	Synthesis and characterisation of luminescent fluorinated organoboron compounds. <i>Dalton Transactions</i> , 2007, , 1425.	1.6	37
54	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

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55	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
56	The Path Forward for Biofuels and Biomaterials. <i>Science</i> , 2006, 311, 484-489.	6.0	4,935
57	Lewis and Brønsted multifunctionality: an unusual heterocycle from the reaction of bis(pentafluorophenyl)borinic acid with nitriles. <i>Chemical Communications</i> , 2006, , 1295.	2.2	10
58	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
59	Protonation of Platinum(II) Dialkyl Complexes Containing Ligands with Proximate H-Bonding Substituents. <i>Organometallics</i> , 2006, 25, 2074-2079.	1.1	28
60	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
61	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
62	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
63	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
64	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
65	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
66	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
67	Iron and Cobalt Ethylene Polymerization Catalysts: Variations on the Central Donor. <i>Inorganic Chemistry</i> , 2003, 42, 3454-3465.	1.9	165
68	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
69	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
70	Iron-Catalyzed Polyethylene Chain Growth on Zinc: Linear $\hat{\pm}$ -Olefins with a Poisson Distribution. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 489-491.	7.2	189
71	Imine Versus Amine Donors in Iron-Based Ethylene Polymerisation Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 431-437.	1.0	89
72	Palladium(II) complexes containing mono-, bi- and tridentate carbene ligands. Synthesis, characterisation and application as catalysts in C _i -C _j coupling reactions. <i>Journal of Organometallic Chemistry</i> , 2001, 617-618, 546-560.	0.8	310

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73	Bis(imino)pyridyl iron and cobalt complexes: the effect of nitrogen substituents on ethylene oligomerisation and polymerisation. Dalton Transactions RSC, 2001, , 1639-1644.	2.3	120
74	Oligomerisation of Ethylene by Bis(imino)pyridyliron and -cobalt Complexes. Chemistry - A European Journal, 2000, 6, 2221-2231.	1.7	333
75	The Search for New-Generation Olefin Polymerization Catalysts: Life beyond Metallocenes. Angewandte Chemie - International Edition, 1999, 38, 428-447.	7.2	1,707
76	Iron and Cobalt Ethylene Polymerization Catalysts Bearing 2,6-Bis(Imino)Pyridyl Ligands:Â Synthesis, Structures, and Polymerization Studies. Journal of the American Chemical Society, 1999, 121, 8728-8740.	6.6	1,011
77	Highly active ethylene polymerisation catalysts based on iron: an ab initio study. Chemical Communications, 1999, , 1333-1334.	2.2	71
78	The Search for New-Generation Olefin Polymerization Catalysts: Life beyond Metallocenes. , 1999, 38, 428.		2
79	The Search for New-Generation Olefin Polymerization Catalysts: Life beyond Metallocenes. , 1999, 38, 428.		2
80	Cationic methylpalladium(II) complexes containing bidentate Nâ€“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 interpretationâ€“â€“. Journal of the Chemical Society Dalton Transactions, 1998, , 1137-1144.	1.1	39
81	Novel olefin polymerization catalysts based on iron and cobalt. Chemical Communications, 1998, , 849-850.	2.2	990
82	Cationic methyl-palladium(II) complexes containing bidentate N âˆ“ O and P âˆ“ O ligands and a tridentate P âˆ“ O âˆ“ N ligand: Synthesis, carbonylation and catalytic applications in the copolymerisation of carbon monoxide and ethene. Journal of Organometallic Chemistry, 1997, 533, 201-212.	0.8	30
83	Ethene insertion into a palladiumâ€“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. Chemical Communications, 1996, , 1563-1564.	2.2	33
84	Hemilabile ligands in palladium catalysed Cî—,C linkages: the effect of the donor atom in the codimerisation of styrene with ethylene. Journal of Molecular Catalysis A, 1996, 110, 77-87.	4.8	30
85	Hemilabile P,O-ligands in palladium catalysed Câ€“C linkages: codimerization of ethylene and styrene and cooligomerization of ethylene and carbon monoxide. Journal of the Chemical Society Chemical Communications, 1993, .	2.0	77
86	Enantioselective synthesis of 3-amino-2-azetidinones via the ester enolate - imine condensation. Journal of Organic Chemistry, 1992, 57, 3906-3916.	1.7	53