

# George J P Britovsek

## List of Publications by Citations

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86

papers

12,504

citations

40

h-index

93

g-index

93

ext. papers

13,235

ext. citations

6.3

avg, IF

5.82

L-index

#	Paper	IF	Citations
86	The path forward for biofuels and biomaterials. <i>Science</i> , <b>2006</b> , 311, 484-9	33.3	4274
85	The Search for New-Generation Olefin Polymerization Catalysts: Life beyond Metallocenes. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 428-447	16.4	1549
84	Novel olefin polymerization catalysts based on iron and cobalt. <i>Chemical Communications</i> , <b>1998</b> , 849-850	5.8	911
83	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> , <b>1999</b> , 121, 8728-8740	16.4	900
82	Oligomerisation of ethylene by bis(imino)pyridyliron and -cobalt complexes. <i>Chemistry - A European Journal</i> , <b>2000</b> , 6, 2221-31	4.8	309
81	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> , <b>2001</b> , 617-618, 546-560	2.3	293
80	Non-heme iron(II) complexes containing tripodal tetradentate nitrogen ligands and their application in alkane oxidation catalysis. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 8125-34	5.1	264
79	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> , <b>2004</b> , 126, 10701-12	16.4	223
78	Auf der Suche nach einer neuen Generation von Katalysatoren zur Olefinpolymerisation: Neben jenseits der Metallocene. <i>Angewandte Chemie</i> , <b>1999</b> , 111, 448-468	3.6	214
77	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> , <b>2005</b> , 127, 9913-23	16.4	202
76	Iron-catalyzed polyethylene chain growth on zinc: linear alpha-olefins with a poisson distribution. <i>Angewandte Chemie - International Edition</i> , <b>2002</b> , 41, 489-91	16.4	175
75	Iron and cobalt ethylene polymerization catalysts: variations on the central donor. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 3454-65	5.1	149
74	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> , <b>2003</b> , 345, 279-291	2.7	135
73	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> , <b>2002</b> , 1159		131
72	EPR spectroscopic trapping of the active species of nonheme iron-catalyzed oxidation. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10798-9	16.4	128
71	From B(C6F5)3 to B(OC6F5)3: Synthesis of (C6F5)2BOC6F5 and C6F5B(OC6F5)2 and Their Relative Lewis Acidity. <i>Organometallics</i> , <b>2005</b> , 24, 1685-1691	3.8	128
70	Ligand topology variations and the importance of ligand field strength in non-heme iron catalyzed oxidations of alkanes. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 3752-67	5.1	117

69	Bis(imino)pyridyl iron and cobalt complexes: the effect of nitrogen substituents on ethylene oligomerisation and polymerisation. <i>Dalton Transactions RSC</i> , <b>2001</b> , 1639-1644		110
68	The nature of the active site in bis(imino)pyridine iron ethylene polymerisation catalysts. <i>Catalysis Communications</i> , <b>2002</b> , 3, 207-211	3.2	105
67	Distinguishing Chain Growth Mechanisms in Metal-catalyzed Olefin Oligomerization and Polymerization Systems: C <sub>2</sub> H <sub>4</sub> /C <sub>2</sub> D <sub>4</sub> Co-oligomerization/Polymerization Experiments Using Chromium, Iron, and Cobalt Catalysts. <i>Organometallics</i> , <b>2009</b> , 28, 7033-7040	3.8	97
66	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> , <b>2005</b> , 945-55	4.3	93
65	Towards robust alkane oxidation catalysts: electronic variations in non-heme iron(ii) complexes and their effect in catalytic alkane oxidation. <i>Dalton Transactions</i> , <b>2009</b> , 5319-34	4.3	85
64	Imine Versus Amine Donors in Iron-Based Ethylene Polymerisation Catalysts. <i>European Journal of Inorganic Chemistry</i> , <b>2001</b> , 2001, 431-437	2.3	82
63	Catalyst Stability Determines the Catalytic Activity of Non-Heme Iron Catalysts in the Oxidation of Alkanes. <i>Advanced Synthesis and Catalysis</i> , <b>2008</b> , 350, 883-897	5.6	80
62	Catalytic hydrogenolysis of ethanol organosolv lignin. <i>Holzforschung</i> , <b>2009</b> , 63,	2	78
61	Hemilabile P,O-ligands in palladium catalysed C≡C linkages: codimerization of ethylene and styrene and cooligomerization of ethylene and carbon monoxide. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1993</b> , 1632-1634		74
60	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> , <b>2010</b> , 39, 9039-45	4.3	67
59	The effect of imine-carbon substituents in bis(imino)pyridine-based ethylene polymerisation catalysts across the transition series. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 643	5.5	64
58	Highly active ethylene polymerisation catalysts based on iron: an ab initio study. <i>Chemical Communications</i> , <b>1999</b> , 1333-1334	5.8	64
57	Iron(II), manganese(II) and cobalt(II) complexes containing tetradentate biphenyl-bridged ligands and their application in alkane oxidation catalysis. <i>Dalton Transactions</i> , <b>2006</b> , 1399-408	4.3	62
56	Towards photocatalytic alkane oxidation: the insertion of dioxygen into a platinum(II)-methyl bond. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5900-3	16.4	59
55	Single- and Double-Coordination Mechanism in Ethylene Tri- and Tetramerization with Cr/PNP Catalysts. <i>ACS Catalysis</i> , <b>2015</b> , 5, 4152-4166	13.1	56
54	Ethylene Oligomerization beyond SchulzBlory Distributions. <i>ACS Catalysis</i> , <b>2015</b> , 5, 6922-6925	13.1	53
53	Lewis Acids and Lewis Acid-Functionalized Ligands in Rhodium-Catalyzed Methyl Acetate Carbonylation. <i>Organometallics</i> , <b>2011</b> , 30, 4060-4066	3.8	52
52	Electronic effects in oxo transfer reactions catalysed by salan molybdenum(VI) cis-dioxo complexes. <i>Dalton Transactions</i> , <b>2009</b> , 2337-44	4.3	51

51	Polyethylene terephthalate degradation under natural and accelerated weathering conditions. <i>European Polymer Journal</i> , <b>2020</b> , 136, 109873	5.2	51
50	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> , <b>2007</b> , 261, 293-300		46
49	Enantioselective synthesis of 3-amino-2-azetidiones via the ester enolate - imine condensation. <i>Journal of Organic Chemistry</i> , <b>1992</b> , 57, 3906-3916	4.2	45
48	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> , <b>2012</b> , 41, 5949-64	4.3	43
47	Unraveling the origins of catalyst degradation in non-heme iron-based alkane oxidation. <i>Dalton Transactions</i> , <b>2014</b> , 43, 17108-19	4.3	41
46	Iron-Catalyzed Polyethylene Chain Growth on Zinc: Linear Olefins with a Poisson Distribution. <i>Angewandte Chemie</i> , <b>2002</b> , 114, 507-509	3.6	40
45	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> , <b>2014</b> , 136, 14089-99	16.4	37
44	Cationic methylpalladium(II) complexes containing bidentate N $\pi$ 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 American Chemical Society Dalton Transactions</i> , <b>1998</b> , 1137-1144		37
43	The effect of fluorination on the luminescent behaviour of 8-hydroxyquinoline boron compounds. <i>New Journal of Chemistry</i> , <b>2008</b> , 32, 1379	3.6	35
42	Acetylene Cyclotrimerization with an Iron(II) Bis(imino)pyridine Catalyst. <i>Organometallics</i> , <b>2012</b> , 31, 3439-3442	3.2	34
41	Iron(II) complexes with tetradentate bis(aminophenolate) ligands: synthesis and characterization, solution behavior, and reactivity with O(2). <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 11106-17	5.1	34
40	Synthesis and characterisation of luminescent fluorinated organoboron compounds. <i>Dalton Transactions</i> , <b>2007</b> , 1425-32	4.3	33
39	Ethene insertion into a palladium-acetyl bond: crystal structure of [Pd(CH <sub>2</sub> CH <sub>2</sub> COMe)(NC <sub>5</sub> H <sub>4</sub> CO <sub>2</sub> Me-2)(PPh <sub>3</sub> )]BF <sub>4</sub> , a novel reaction intermediate from the insertion process. <i>Chemical Communications</i> , <b>1996</b> , 1563-1564	5.8	33
38	Ligand tuning of single-site manganese-based catalytic antioxidants with dual superoxide dismutase and catalase activity. <i>Chemical Communications</i> , <b>2014</b> , 50, 4607-9	5.8	32
37	From Lignin to Chemicals: Hydrogenation of Lignin Models and Mechanistic Insights into Hydrodeoxygenation via Low-Temperature C $\equiv$ O Bond Cleavage. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2345-2354	13.1	31
36	Heavy Metal Sensing Using Self-Assembled Nanoparticles at a Liquid-Liquid Interface. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 966-977	8.1	31
35	A DFT Mechanistic Study on Ethylene Tri- and Tetramerization with Cr/PNP Catalysts: Single versus Double Insertion Pathways. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 16891-16896	4.8	31
34	First metal complexes of 6,6'-dihydroxy-2,2'-bipyridine: from molecular wires to applications in carbonylation catalysis. <i>Dalton Transactions</i> , <b>2011</b> , 40, 1031-3	4.3	30

33	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> , <b>1996</b> , 110, 77-87		28
32	Protonation of Platinum(II) Dialkyl Complexes Containing Ligands with Proximate H-Bonding Substituents. <i>Organometallics</i> , <b>2006</b> , 25, 2074-2079	3.8	27
31	Mechanistic study of ethylene tri- and tetramerisation with Cr/PNP catalysts: effects of additional donors. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 8234-8241	5.5	25
30	Tri(pyridylmethyl)phosphine: the elusive congener of TPA shows surprisingly different coordination behavior. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 7000-9	5.1	24
29	Cationic methyl-palladium(II) complexes containing bidentate N ? O and P ? O ligands and a tridentate P ? O ? N ligand: Synthesis, carbonylation and catalytic applications in the copolymerisation of carbon monoxide and ethene. <i>Journal of Organometallic Chemistry</i> , <b>1997</b> , 533, 201-212	2.3	23
28	Hydrogen bonding directs the H <sub>2</sub> O <sub>2</sub> oxidation of platinum(II) to a cis-dihydroxo platinum(IV) complex. <i>Chemical Communications</i> , <b>2008</b> , 2800-2	5.8	23
27	Ethylene Trimerisation with Cr-PNP Catalysts: A Theoretical Benchmarking Study and Assessment of Catalyst Oxidation State. <i>Australian Journal of Chemistry</i> , <b>2014</b> , 67, 1481	1.2	22
26	Coordination equilibria between seven- and five-coordinate iron(II) complexes. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 11867-74	5.1	20
25	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> , <b>2011</b> , 2011, 3511-3522	2.3	19
24	Alternating $\beta$ olefin Distributions via Single and Double Insertions in Chromium-Catalyzed Ethylene Oligomerization. <i>Organometallics</i> , <b>2017</b> , 36, 510-522	3.8	18
23	Synthesis and reactivity of water-soluble platinum(II) complexes containing nitrogen ligands. <i>Journal of Organometallic Chemistry</i> , <b>2003</b> , 679, 110-115	2.3	16
22	A DFT-based mechanistic proposal for the light-driven insertion of dioxygen into Pt(II)-C bonds. <i>Chemical Science</i> , <b>2018</b> , 9, 5039-5046	9.4	15
21	A strong-field pentadentate ligand in iron-based alkane oxidation catalysis and implications for iron(IV) oxo intermediates. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 1116	5.5	14
20	C <sub>60</sub> benzylic oxidation promoted by dinuclear iron DBDOC iminopyridine complexes. <i>Inorganica Chimica Acta</i> , <b>2015</b> , 431, 156-160	2.7	13
19	Carbodeoxygenation of biomass: the carbonylation of glycerol and higher polyols to monocarboxylic acids. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 6840-4	4.8	13
18	Heterogeneous iron containing carbon catalyst (Fe-N/C) for epoxidation with molecular oxygen. <i>Journal of Catalysis</i> , <b>2019</b> , 370, 357-363	7.3	12
17	High-Valent Iron in Biomimetic Alkane Oxidation Catalysis. <i>Topics in Organometallic Chemistry</i> , <b>2015</b> , 145-171	0.6	11
16	Light-Driven Methyl Exchange Reactions in Square-Planar Palladium(II) and Platinum(II) Complexes. <i>Organometallics</i> , <b>2014</b> , 33, 1453-1461	3.8	11

15	From alternating to selective distributions in chromium-catalysed ethylene oligomerisation with asymmetric BIMA ligands. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 1314-1321	5.5	10
14	High activity acetylene polymerisation with a bis(imino)pyridine iron(II) catalyst. <i>Chemical Communications</i> , <b>2011</b> , 47, 6945-7	5.8	8
13	Lewis and Brønsted multifunctionality: an unusual heterocycle from the reaction of bis(pentafluorophenyl)borinic acid with nitriles. <i>Chemical Communications</i> , <b>2006</b> , 1295-7	5.8	8
12	The Mathematics of Ethylene Oligomerisation and Polymerisation. <i>Topics in Catalysis</i> , <b>2020</b> , 63, 294-318	2.3	8
11	Novel iminopyridine derivatives: ligands for preparation of Fe(ii) and Cu(ii) dinuclear complexes. <i>Dalton Transactions</i> , <b>2016</b> , 45, 3564-76	4.3	7
10	gem-Dialkyl Effect in Diphosphine Ligands: Synthesis, Coordination Behavior, and Application in Pd-Catalyzed Hydroformylation. <i>ACS Catalysis</i> , <b>2020</b> , 10, 663-671	13.1	7
9	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> , <b>2018</b> , 8, 2944-2958	13.1	6
8	Divergent reactivity of platinum(ii) and palladium(ii) methylperoxo complexes and the formation of an unusual hemi-aminal complex. <i>Dalton Transactions</i> , <b>2016</b> , 45, 14520-3	4.3	6
7	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> , <b>2011</b> , 178, 64-71	5.3	5
6	The Search for New-Generation Olefin Polymerization Catalysts: Life beyond Metallocenes <b>1999</b> , 38, 428		2
5	Directing Selectivity to Aldehydes, Alcohols, or Esters with Diphobane Ligands in Pd-Catalyzed Alkene Carbonylations. <i>Organometallics</i> , <b>2021</b> , 40, 1914-1925	3.8	1
4	The Search for New-Generation Olefin Polymerization Catalysts: Life beyond Metallocenes <b>1999</b> , 38, 428		1
3	Biaryl Group 4 Metal Complexes as Non-Metallocene Catalysts for Polyethylene with Long Chain Branching. <i>European Journal of Inorganic Chemistry</i> , <b>2020</b> , 2020, 4088-4092	2.3	0
2	Photolytic Activation of Late-Transition-Metal-Carbon Bonds and Their Reactivity toward Oxygen. <i>Organometallics</i> , <b>2021</b> , 40, 4077-4091	3.8	0
1	Homogeneous Catalysts. Activity Stability Deactivation. Von Piet W. N. M. van Leeuwen und John C. Chadwick.. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1548-1548	3.6	