Warren E Piers

List of Publications by Year
in descending order

112 papers	12,269 citations	31976 53 h-index	24258 110 g-index
143 all docs	143 docs citations	143 times ranked	5240 citing authors

#	Article	IF	Citations
1	Promoting photocatalytic CO₂ reduction through facile electronic modification of N-annulated perylene diimide rhenium bipyridine dyads. Chemical Science, 2022, 13, 1049-1059.	7.4	10
2	Carbene Character in a Series of Neutral PC_{carbene}P Cobalt(I) Complexes: Radical Carbenes versus Nucleophilic Carbenes. Organometallics, 2022, 41, 235-245.	2.3	2
3	Spontaneous Ammonia Activation Through Coordinationâ€Induced Bond Weakening in Molybdenum Complexes of a Dianionic Pentadentate Ligand Platform**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	11
4	A monoanionic pentadentate ligand platform for scandiumâ€“pnictogen multiple bonds. Chemical Communications, 2021, 57, 8640-8643.	4.1	7
5	Activation of ammonia and hydrazine by electron rich Fe(<scp>ii</scp>) complexes supported by a dianionic pentadentate ligand platform through a common terminal Fe(<scp>iii</scp>) amido intermediate. Chemical Science, 2021, 12, 2231-2241.	7.4	21
6	Lowering Electrocatalytic CO₂ Reduction Overpotential Using N-Annulated Perylene Diimide Rhenium Bipyridine Dyads with Variable Tether Length. Journal of the American Chemical Society, 2021, 143, 16849-16864.	13.7	15
7	Aqueous CO₂ Reduction by a Re(bipyridine)-polypyrrole Film Deposited on Colloid-Imprinted Carbon. ACS Catalysis, 2021, 11, 1096-1105.	11.2	10
8	Twenty-five years of bis-pentafluorophenyl borane: a versatile reagent for catalyst and materials synthesis. Chemical Communications, 2020, 56, 841-853.	4.1	65
9	Tandem deoxygenative hydrosilation of carbon dioxide with a cationic scandium hydridoborate and B(C₆F₅)₃. Dalton Transactions, 2020, 49, 95-101.	3.3	14
10	H/D exchange under mild conditions in arenes and unactivated alkanes with C₆D₆ and D₂O using rigid, electron-rich iridium PCP pincer complexes. Chemical Science, 2020, 11, 10705-10717.	7.4	20
11	Synthesis, Characterization, and Reactivity of Neutral Octahedral Alkyl-Cobalt(III) Complexes Bearing a Dianionic Pentadentate Ligand. Organometallics, 2020, 39, 2269-2277.	2.3	5
12	Hydrolysis of scandium alkyl derivatives supported by a pentadentate diborate ligand: Interconversion of hydroxo and oxo complexes. Polyhedron, 2020, 179, 114410.	2.2	7
13	Boronâ€“nitrogen substituted dihydroindeno[1,2-b]fluorene derivatives as acceptors in organic solar cells. Chemical Communications, 2019, 55, 11095-11098.	4.1	26
14	Electrocatalytic CO₂ Reduction at Lower Overpotentials Using Iron(III) Tetra(meso-thienyl)porphyrins. ACS Applied Energy Materials, 2019, 2, 4022-4026.	5.1	28
15	Grafting of a Molecular Rhenium CO₂ Reduction Catalyst onto Colloid-Imprinted Carbon. ACS Applied Energy Materials, 2019, 2, 2414-2418.	5.1	24
16	Ligand-centered electrochemical processes enable CO₂ reduction with a nickel bis(triazapentadienyl) complex. Sustainable Energy and Fuels, 2019, 3, 1172-1181.	4.9	7
17	Synthesis and Structures of Stable Pt^{II} and Pt^{IV} Alkylidenes: Evidence for Ï€â€Bonding and Relativistic Stabilization. Chemistry - A European Journal, 2019, 25, 4305-4308.	3.3	6
18	Oxygen Atom Transfer to Cationic PCPNi(II) Complexes Using Amine-N-Oxides. Inorganic Chemistry, 2018, 57, 495-506.	4.0	17

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19	Divergent reactivity of nucleophilic 1-bora-7a-azaindenide anions. Dalton Transactions, 2018, 47, 734-741.	3.3	4
20	Redox-state dependent activation of silanes and ammonia with reverse polarity (PC_{carbene}P)Ni complexes: electrophilic vs. nucleophilic carbenes. Dalton Transactions, 2018, 47, 16789-16797.	3.3	27
21	Oxygenâ€“Oxygen Bond Cleavage and Formation in Co(II)-Mediated Stoichiometric O₂ Reduction via the Potential Intermediacy of a Co(IV) Oxyl Radical. Journal of the American Chemical Society, 2018, 140, 16094-16105.	13.7	50
22	Tuning iridium (I) PCcarbeneP frameworks for facile cooperative N2O reduction. Polyhedron, 2018, 155, 281-290.	2.2	18
23	Scandium alkyl and hydride complexes supported by a pentadentate diborate ligand: reactions with CO₂ and N₂O. Dalton Transactions, 2018, 47, 13680-13688.	3.3	23
24	Divergent Reactivity of CO₂, CO, and Related Substrates at the Nickel Carbon Double Bond of (PC_{carbene}P)Ni(II) Pincer Complexes. Organometallics, 2018, 37, 3394-3398.	2.3	24
25	Zirconocene-Based Methods for the Preparation of BN-Indenes: Application to the Synthesis of 1,5-Dibora-4a,8a-diaza-1,2,3,5,6,7-hexaaryl-4,8-dimethyl-s-indacenes. Organometallics, 2017, 36, 2541-2551.	2.3	24
26	Cationic PCP iridaepoxide and carbene complexes for facile water elimination and activation processes. Dalton Transactions, 2017, 46, 4346-4354.	3.3	21
27	Reactions of Neutral Cobalt(II) Complexes of a Dianionic Tetrapodal Pentadentate Ligand: Cobalt(III) Amides from Imido Radicals. Inorganic Chemistry, 2017, 56, 4157-4168.	4.0	24
28	Ligand Attachment Chemistry in the Preparation of PC_{sp³}P and PC_{sp²}P Complexes of Rhodium. Organometallics, 2016, 35, 1279-1286.	2.3	42
29	Cationic mono and dicarbonyl pincer complexes of rhodium and iridium to assess the donor properties of PC_{carbene}P ligands. Dalton Transactions, 2016, 45, 12669-12679.	3.3	35
30	Facile hydrogen atom transfer to iron(<scp>iii</scp>) imido radical complexes supported by a dianionic pentadentate ligand. Chemical Science, 2016, 7, 5939-5944.	7.4	47
31	Systematic dismantling of a carefully designed PC_{carbene}P pincer ligand via Câ€“C bond activations at an iridium centre. Canadian Journal of Chemistry, 2016, 94, 293-296.	1.1	17
32	Activation of Siâ€“H bonds across the nickel carbene bond in electron rich nickel PC_{carbene}P pincer complexes. Chemical Communications, 2016, 52, 1361-1364.	4.1	57
33	Efficient synthetic methods for the installation of boronâ€“nitrogen bonds in conjugated organic molecules. Dalton Transactions, 2016, 45, 5920-5924.	3.3	159
34	Mechanistic studies on the addition of hydrogen to iridaepoxide complexes with subsequent elimination of water. Chemical Science, 2016, 7, 921-931.	7.4	35
35	Ligand Cooperation in the Formal Hydrogenation of N₂O Using a PC_{sp2}P Iridium Pincer Complex. Journal of the American Chemical Society, 2015, 137, 2187-2190.	13.7	95
36	Hydrogen activation with perfluorinated organoboranes: 1,2,3-tris(pentafluorophenyl)-4,5,6,7-tetrafluoro-1-boraindene. Chemical Communications, 2014, 50, 1295-1298.	4.1	59

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37	Bronsted acid-catalyzed skeletal rearrangements in polycyclic conjugated boracycles: a thermal route to a ladder diborole. Chemical Science, 2014, 5, 3189-3196.	7.4	30
38	Direct observation of a boraneâ€“silane complex involved in frustrated Lewis-pair-mediated hydrosilylations. Nature Chemistry, 2014, 6, 983-988.	13.6	337
39	Selective Hydrosilation of CO₂ to a Bis(silylacetal) Using an Anilido Bipyridylâ€Ligated Organoscandium Catalyst. Angewandte Chemie - International Edition, 2014, 53, 789-792.	13.8	106
40	Reversible Interconversion Between a Monomeric Iridium Hydroxo and a Dinuclear Iridium Î¼-Oxo Complex. Journal of the American Chemical Society, 2014, 136, 3256-3263.	13.7	56
41	Bis(Î·5-Pentamethylcyclopentadienyl) Complexes of Scandium. Inorganic Syntheses, 2014, , 42-47.	0.3	0
42	Bis(Î·5-Pentamethylcyclopentadienyl) Complexes of Scandium. Inorganic Syntheses, 2014, , 42-46.	0.3	0
43	BNâ€Dibenzo[a,o]picenes: Analogues of an Unknown Polycyclic Aromatic Hydrocarbon. Angewandte Chemie - International Edition, 2013, 52, 9966-9969.	13.8	83
44	Activation of Water, Ammonia, and Other Small Molecules by PC_{carbene}P Nickel Pincer Complexes. Journal of the American Chemical Society, 2013, 135, 11776-11779.	13.7	216
45	A thermally robust ruthenium phosphonium alkylidene catalyst â€" the effect of more bulky N-heterocyclic carbene ligands on catalyst performance in olefin metathesis reactions. Canadian Journal of Chemistry, 2013, 91, 935-942.	1.1	14
46	Acetonitrile Coupling at an Electronâ€Rich Iridium Center Supported by a PCP Pincer Ligand. European Journal of Inorganic Chemistry, 2013, 2013, 3826-3830.	2.0	36
47	Arene Câ€“H bond activation across Pt(<scp>ii</scp>)â€“OH bonds: catalyzed vs. uncatalyzed pathways. Chemical Science, 2013, 4, 770-775.	7.4	15
48	Decamethylscandocinium-hydrido-(perfluorophenyl)borate: fixation and tandem tris(perfluorophenyl)borane catalysed deoxygenative hydrosilation of carbon dioxide. Chemical Science, 2013, 4, 2152.	7.4	132
49	Reaction of pentaarylboroles with carbon monoxide: an isolable organoboron carbonyl complex. Chemical Science, 2012, 3, 1814.	7.4	137
50	Î²-Elimination-Immune PC_{carbene}P Iridium Complexes via Double Câ€“H Activation: Ligandâ€“Metal Cooperation in Hydrogen Activation. Organometallics, 2012, 31, 2949-2952.	2.3	108
51	Reactivity of Scandium Î²-Diketiminate Alkyl Complexes with Carbon Dioxide. Organometallics, 2012, 31, 810-818.	2.3	58
52	Carbon Monoxide Activation via O-Bound CO Using Decamethylscandociniumâ€“Hydridoborate Ion Pairs. Journal of the American Chemical Society, 2012, 134, 10843-10851.	13.7	90
53	Isomeric Dipyrrinato and Dipyrromethanato Boranes. Organometallics, 2011, 30, 1067-1072.	2.3	23
54	Future Trends in Organometallic Chemistry: Organometallic Approaches to Water Splitting. Organometallics, 2011, 30, 13-16.	2.3	57

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55	Mechanistic Aspects of Bond Activation with Perfluoroarylboranes. Inorganic Chemistry, 2011, 50, 12252-12262.	4.0	304
56	Highly Active and Diastereoselective N,Oâ€•and N,Nâ€Ÿttrium Complexes for Intramolecular Hydroamination. Advanced Synthesis and Catalysis, 2011, 353, 1384-1390.	4.3	20
57	Tandem Frustrated Lewis Pair/Tris(pentafluorophenyl)borane-Catalyzed Deoxygenative Hydrosilylation of Carbon Dioxide. Journal of the American Chemical Society, 2010, 132, 10660-10661.	13.7	482
58	Kinetic and Thermodynamic Analysis of Processes Relevant to Initiation of Olefin Metathesis by Ruthenium Phosphonium Alkylidene Catalysts. Journal of the American Chemical Society, 2010, 132, 2784-2794.	13.7	51
59	Perfluoropentaphenylborole. Angewandte Chemie - International Edition, 2009, 48, 2955-2958.	13.8	150
60	Perfluoroaryl-Substituted Boron Dipyrrinato Complexes. Organometallics, 2009, 28, 4845-4851.	2.3	39
61	Nucleophilic Degradation of a Î²-Diketiminato Ancillary by a Transient Scandium Hydride Intermediate. Organometallics, 2009, 28, 6228-6233.	2.3	50
62	B-N as a C-C substitute in aromatic systems. Canadian Journal of Chemistry, 2009, 87, 8-29.	1.1	516
63	Accelerated Ligand Metalation in a Î²-Diketiminato Scandium Dimethyl Complex Activated with Bis(pentafluorophenyl)borane. Organometallics, 2007, 26, 4464-4470.	2.3	38
64	10a-Aza-10b-borapyrenes: Heterocyclic Analogues of Pyrene with Internalized BN Moieties. Angewandte Chemie - International Edition, 2007, 46, 4940-4943.	13.8	260
65	Bifunctional Perfluoroaryl Boranes:â€‰ Synthesis and Coordination Chemistry with Neutral Lewis Base Donors. Organometallics, 2006, 25, 349-357.	2.3	86
66	Î²-Diketiminato Scandium Chemistry:Â Attempted Deprotonation of Cationic Amido Complexes. Organometallics, 2006, 25, 3289-3292.	2.3	45
67	Triphenylene Analogues with B2N2C2Cores:Â Synthesis, Structure, Redox Behavior, and Photophysical Properties. Journal of the American Chemical Society, 2006, 128, 10885-10896.	13.7	165
68	Borinium, Borenium, and Boronium Ions: Synthesis, Reactivity, and Applications. Angewandte Chemie - International Edition, 2005, 44, 5016-5036.	13.8	341
69	Synthesis, Structure, and Ion Pair Dynamics of Î²-Diketiminato-Supported Organoscandium Contact Ion Pairs. Organometallics, 2005, 24, 1173-1183.	2.3	92
70	Rapidly Initiating Ruthenium Olefin-Metathesis Catalysts. Angewandte Chemie - International Edition, 2004, 43, 6161-6165.	13.8	191
71	Reaction of Bis(pentafluorophenyl)borane with Methylidyne Complexes:Â Synthesis and Characterization of a Cationic Tungsten(VI) Borylalkylidyne Hydride. Organometallics, 2004, 23, 314-316.	2.3	16
72	Scandium-Catalyzed Intramolecular Hydroamination. Development of a Highly Active Cationic Catalyst. Organometallics, 2004, 23, 2234-2237.	2.3	165

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73	A new family of monocyclopentadienyl organoscandium bis-alkyls supported by a bulky trialkylphosphine oxide ancillary. Canadian Journal of Chemistry, 2004, 82, 162-165.	1.1	48
74	2,2â€²-Diborabiphenyl: A Lewis Acid Analogue of 2,2â€²-Bipyridine. Angewandte Chemie - International Edition, 2003, 42, 1252-1255.	13.8	117
75	A New Chelating Anilido-Imine Donor Related to Î²-Diketiminato Ligands for Stabilization of Organoyttrium Cations. Organometallics, 2003, 22, 1577-1579.	2.3	148
76	Synthesis and thermal reactivity of organoscandium and yttrium complexes of sterically less bulky salicylaldiminato ligandsElectronic supplementary information (ESI) available: Further experimental details. See http://www.rsc.org/suppdata/dt/b3/b303097k/. Dalton Transactions, 2003, , 2615.	3.3	31
77	Cationic Scandium Methyl Complexes Supported by a Î²-Diketiminato (â€œNacnacâ€) Ligand Framework. Journal of the American Chemical Society, 2002, 124, 2132-2133.	13.7	206
78	Reactions of a Borataalkene Ligand at Tantalocene Centers:Â Isonitrile Insertion into the Bâ^'C Bond of the [CH2B(C6F5)2] Ligand via the Î·1Bonding Mode. Organometallics, 2002, 21, 2422-2425.	2.3	29
79	Organometallic Complexes of Scandium and Yttrium Supported by a Bulky Salicylaldimine Ligand. Organometallics, 2002, 21, 4226-4240.	2.3	131
80	Synthesis and Chemistry of Zwitterionic Tantala-3-boratacyclopentenes:Â Olefin-like Reactivity of a Borataalkene Ligand. Journal of the American Chemical Society, 2002, 124, 5411-5418.	13.7	60
81	Organo-scandium and -yttrium complexes supported by a salicylaldiminato ligand. Dalton Transactions RSC, 2002, , 293-294.	2.3	54
82	Non-cyclopentadienyl ancillaries in organogroup 3 metal chemistry: a fine balance in ligand design. Coordination Chemistry Reviews, 2002, 233-234, 131-155.	18.8	405
83	Dialkylscandium Complexes Supported by Î²-Diketiminato Ligands:Â Synthesis, Characterization, and Thermal Stability of a New Family of Organoscandium Complexes. Organometallics, 2001, 20, 2533-2544.	2.3	201
84	Reactions of Bis(pentafluorophenyl)borane with Cp2Ta(CH2)CH3:Â Generation and Trapping of Tantalocene Borataalkene Complexes. Organometallics, 2001, 20, 3927-3937.	2.3	58
85	B(C6F5)3-Catalyzed Hydrosilation of Imines via Silyliminium Intermediates. Organic Letters, 2000, 2, 3921-3923.	4.6	337
86	Synthesis and Reactivity of Tantalocene Zwitterions Stabilized by Ground-State Î±-Agostic Interactions via Reaction of B(C6F5)3with Cpâ€˜2Ta(CH2)(CH3) (Cpâ€˜ = C5H5, C5H4Me). Organometallics, 2000, 19, 2243-2245.	2.3	27
87	Studies on the Mechanism of B(C6F5)3-Catalyzed Hydrosilation of Carbonyl Functions. Journal of Organic Chemistry, 2000, 65, 3090-3098.	3.2	657
88	New Fluorinated 9-Borafluorene Lewis Acids. Journal of the American Chemical Society, 2000, 122, 12911-12912.	13.7	142
89	Mechanistic Studies on Selectivity in the B(C6F5)3-Catalyzed Allylstannation of Aldehydes:â€‰ Is Hypercoordination at Boron Responsible?. Organic Letters, 2000, 2, 695-698.	4.6	77
90	Reactions of Bis(pentafluorophenyl)borane with Titanocene Dialkyls:Â Synthesis and Structure of Cp2Ti[Î·2-H2B(C6F5)2]. Organometallics, 2000, 19, 2040-2042.	2.3	20

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91	Title is missing!. Topics in Catalysis, 1999, 7, 133-143.	2.8	36
92	Activation of [Cp2ZrMe2] with New Perfluoroaryl Diboranes: Solution Chemistry and Ethylene Polymerization Behavior in the Presence of MeAl(BHT)2. Angewandte Chemie - International Edition, 1999, 38, 3695-3698.	13.8	94
93	Zwitterionic Metallocenes Derived fromracandmeso-Ethylenebisindenyl Zirconocene Olefin Complexes and Pentafluorophenyl-Substituted Boranes. Organometallics, 1999, 18, 3904-3912.	2.3	39
94	Synthesis of Dialkylscandium Complexes Supported by Î²-Diketiminato Ligands and Activation with Tris(pentafluorophenyl)borane. Organometallics, 1999, 18, 2947-2949.	2.3	161
95	Reactions of Bis(pentafluorophenyl)borane with Cp2Ta(CH2)CH3. Organometallics, 1999, 18, 1575-1577.	2.3	45
96	Zwitterionic Metallocenes. Chemistry - A European Journal, 1998, 4, 13-18.	3.3	112
97	Hydroboration of vinyl silanes with bis-(pentafluorophenyl)borane: Ground state Î²-silicon effects. Tetrahedron, 1998, 54, 15469-15488.	1.9	71
98	Mechanistic Aspects of the Reactions of Bis(pentafluorophenyl)borane with the Dialkyl Zirconocenes Cp2ZrR2 (R = CH3, CH2SiMe3, and CH2C6H5). Organometallics, 1998, 17, 2459-2469.	2.3	97
99	Synthesis, Properties, and Hydroboration Activity of the Highly Electrophilic Borane Bis(pentafluorophenyl)borane, HB(C6F5)21. Organometallics, 1998, 17, 5492-5503.	2.3	498
100	Synthesis and Solution and Solid-State Structures of Tris(pentafluorophenyl)borane Adducts of PhC(O)X (X = H, Me, OEt, NPri2). Organometallics, 1998, 17, 1369-1377.	2.3	171
101	Acetone and Acetophenone Adducts of the Zwitterionic Zirconocene Cp*[Î·5-C5Me4CH2B(C6F5)3]ZrC6H5. Organometallics, 1997, 16, 2509-2513.	2.3	22
102	Intramolecular Ionâ^'Ion Interactions in Zwitterionic Metallocene Olefin Polymerization Catalysts Derived from â€œTucked-Inâ€•Catalyst Precursors and the Highly Electrophilic Boranes XB(C6F5)2(X = H,) Tj ETQq1 1 0.7 rgBT /Overlock	13.7	127
103	Pentafluorophenylboranes: from obscurity to applications. Chemical Society Reviews, 1997, 26, 345.	38.1	608
104	Tris(pentafluorophenyl)boron-Catalyzed Hydrosilation of Aromatic Aldehydes, Ketones, and Esters. Journal of the American Chemical Society, 1996, 118, 9440-9441.	13.7	696
105	Reactions of Bis(pentafluorophenyl)borane with Phosphine Olefin Complexes of Zirconocene. Organometallics, 1996, 15, 4110-4112.	2.3	44
106	Bis(pentafluorphenyl)boran: Synthese, Eigenschaften und Hydroborierungschemie eines sehr elektrophilen Borans. Angewandte Chemie, 1995, 107, 895-897.	2.0	157
107	Konkurrierende Reaktionswege bei der Reaktion von Bis(pentafluorphenyl)boran mit Bis(Î·‹sup›5‹/sup›â€cyclopentadienyl)dimethylzirconium: Methanâ€Eliminierung oder Methylâ€Hydridâ€Austausch und ein Beispiel fÃ¼r fÃ¼nffach koordinierten Kohlenstoff. Angewandte Chemie, 1995, 107, 1337-1340.	2.0	36
108	Bis(pentafluorophenyl)borane: Synthesis, Properties, and Hydroboration Chemistry of a Highly Electrophilic Borane Reagent. Angewandte Chemie International Edition in English, 1995, 34, 809-811.	4.4	378

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109	Competing Pathways in the Reaction of Bis(pentafluorophenyl)borane with Bis(Î·5-cyclopentadienyl)dimethylzirconium: Methane Elimination versus Methylâ€“Hydride Exchange and an Example of Pentacoordinate Carbon. Angewandte Chemie International Edition in English, 1995, 34, 1230-1233.	4.4	101
110	One-Component Group 4 Homogeneous Ziegler-Natta Olefin Polymerization Catalysts: Hydroboration of Zirconium Bisalkyls with Pendant 2-Propenyl Groups Using [(C6F5)2BH]2. Organometallics, 1995, 14, 4617-4624.	2.3	89
111	Coping With Extreme Lewis Acidity: Strategies for the Synthesis of Stable, Mononuclear Organometallic Derivatives of Scandium. Synlett, 1990, 1990, 74-84.	1.8	249
112	Spontaneous Ammonia Activation Through Coordination Induced Bond Weakening in Molybdenum Complexes of a Dianionic Pentadentate Ligand Platform. Angewandte Chemie, 0, , .	2.0	0