

F Geoffrey N Cloke

List of Publications by Year in descending order

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98
papers

4,600
citations

81743

39
h-index

110170

64
g-index

103
all docs

103
docs citations

103
times ranked

2389
citing authors

#	ARTICLE	IF	CITATIONS
1	Reductive Cyclotrimerization of Carbon Monoxide to the Deltate Dianion by an Organometallic Uranium Complex. <i>Science</i> , 2006, 311, 829-831.	6.0	267
2	Zero oxidation state compounds of scandium, yttrium, and the lanthanides. <i>Chemical Society Reviews</i> , 1993, 22, 17.	18.7	170
3	Unusual Reactivity of a Nickel N-Heterocyclic Carbene Complex: <i>tert</i> -Butyl Group Cleavage and Silicone Grease Activation. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5824-5827.	7.2	165
4	Reversible Binding and Reduction of Dinitrogen by a Uranium(III) Pentalene Complex. <i>Journal of the American Chemical Society</i> , 2002, 124, 9352-9353.	6.6	164
5	Unexpected reactivity of two-coordinate palladium σ -carbene complexes; synthetic and catalytic implications. <i>Chemical Communications</i> , 2001, , 1388-1389.	2.2	153
6	Mechanistic Studies on the Reductive Cyclooligomerisation of CO by U(III) Mixed Sandwich Complexes; the Molecular Structure of		

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19	The first stable scandocene: synthesis and characterisation of bis(η -2,4,5-tri- <i>tert</i> -butyl-1,3-diphosphacyclopentadienyl)scandium(II). <i>Chemical Communications</i> , 1998, , 797-798.	2.2	63
20	Facile Conversion of CO/H ₂ into Methoxide at a Uranium(III) Center. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6881-6883.	7.2	63
21	The First Delocalized Phosphole Containing a Planar Tricoordinate Phosphorus Atom: 1-[Bis(trimethylsilyl)methyl]-3,5-bis(trimethylsilyl)-1,2,4-triphosphole. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1083-1086.	7.2	57
22	Cerium(III) and Cerium(IV) Bis(η -8-pentalene) Sandwich Complexes: A Synthetic, Structural, Spectroscopic, and Theoretical Studies. <i>Organometallics</i> , 2007, 26, 3111-3119.	1.1	57
23	Activation of Small Molecules by U(III) Cyclooctatetraene and Pentalene Complexes. <i>Structure and Bonding</i> , 2008, , 87-117.	1.0	56
24	Organometallic pentalene complexes. <i>Pure and Applied Chemistry</i> , 2001, 73, 233-238.	0.9	52
25	Stabilization of Low-Oxidation-State Early Transition-Metal Complexes Bearing 1,2,4-Triphosphacyclopentadienyl Ligands: Structure of [Sc(P3C2tBu2) ₂] ₂ ; ScII or Mixed Oxidation State?. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1038-1041.	7.2	52
26	Electronic Structure of [U ₂ (η -4-N ₂)(η -5-C ₅ Me ₅) ₂ (η -8-C ₈ H ₄ (SiPr ₃) ₂) ₂]. <i>Organometallics</i> , 2004, 23, 832-835.	1.1	52
27	η -Arene complexes of scandium(0) and scandium(II). <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 1372-1373.	2.0	50
28	Reductive disproportionation of carbon dioxide to carbonate and squarate products using a mixed-sandwich U(III) complex. <i>Chemical Communications</i> , 2008, , 198-200.	2.2	50
29	Anti-Bimetallic Complexes of Divalent Lanthanides with Silylated Pentalene and Cyclooctatetraenyl Bridging Ligands as Molecular Models for Lanthanide-Based Polymers. <i>Organometallics</i> , 2009, 28, 5896-5908.	1.1	49
30	U ^{III} -Induced Reductive Co ^{II} Coupling of NO and CO to Form U ^{IV} Cyanate and Oxo Derivates. <i>Chemistry - A European Journal</i> , 2010, 16, 9446-9448.	1.7	49
31	A New Class of Actinide "Sandwich" Complexes: Synthesis and Molecular Structure of a Thorium Bis(η -8-pentalene) Complex. <i>Journal of the American Chemical Society</i> , 1997, 119, 7899-7900.	6.6	47
32	(Phosphacyclopentadienyl)indium(I) Derivatives: Synthesis and X-ray Crystal Structure of [In(η -5-P ₃ C ₂ But ₂)]. <i>Organometallics</i> , 1999, 18, 793-795.	1.1	47
33	Activation of P ₄ by U(η -5-C ₅ Me ₅)(η -8-C ₈ H ₆ (SiPr ₃) ₂ -1,4)(THF); the X-ray structure of [U(η -5-C ₅ Me ₅)(η -8-C ₈ H ₆ (SiPr ₃) ₂ -1,4)] ₂ (η -4- η -2- η -P ₄). <i>New Journal of Chemistry</i> , 2011, 35, 2022.	1.4	47
34	Yttrium complexes incorporating the chelating diamides {ArN(CH ₂) _x NAr} ₂ (Ar = C ₆ H ₃ -2,6- <i>i</i> Pr ₂ , x = 2, 3) and their unusual reaction with phenylsilane. <i>Dalton Transactions</i> , 2004, , 1083-1096.	1.6	44
35	A Non-Metallocene Hydride of Titanium(III). <i>Journal of the American Chemical Society</i> , 1999, 121, 6843-6849.	6.6	42
36	Activation and reduction of diethyl ether by low valent uranium: formation of the trimetallic, mixed valence uranium oxo species [U(CpRR' ₂)(η -4-I) ₂] ₃ (η -3-O) (CpRR' ₂ = C ₅ Me ₅ , C ₅ Me ₄ H, C ₅ H ₄ SiMe ₃). <i>Chemical Communications</i> , 2008, , 82-84.	2.2	42

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37	Synthesis and Characterization of the First Compounds Containing a Stable Phosphirenyl Cation: Crystal and Molecular Structure of $[\text{Ni}(\text{I}-3\text{-PC}2\text{tBu}2)(\text{I}-5\text{-P}3\text{C}2\text{tBu}2)\text{W}(\text{CO})5]$. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 2330-2332.	4.4	40
38	Bonding in pentalene complexes and their recent applications. <i>Coordination Chemistry Reviews</i> , 2017, 344, 238-262.	9.5	40
39	Trialkylsilyl-Substituted Pentalene Ligands. <i>Organometallics</i> , 2000, 19, 5795-5798.	1.1	39
40	Synthesis and $\text{CO}_{2\text{}}$ Insertion Chemistry of Uranium(IV) Mixed-Sandwich Alkyl and Hydride Complexes. <i>Organometallics</i> , 2013, 32, 5244-5252.	1.1	39
41	Mn_2 bis(pentalene): a mixed-spin bimetallic with two extremes of bonding within the same molecule. <i>Chemical Communications</i> , 2007, , 873-875.	2.2	38
42	Remarkable Transformation of 2,4,6-Tri-tert-butyl-1,3,5-triphoshabenzene into the 2,4,5-Tri-tert-butyl-1,3-diphosphacyclopentadienide Anion. <i>Organometallics</i> , 2000, 19, 219-220.	1.1	37
43	Alkylpalladium N-Heterocyclic Carbene Complexes: Synthesis, Reactivity, and Catalytic Properties. <i>Organometallics</i> , 2008, 27, 6411-6418.	1.1	37
44	Carbon Dioxide Activation by a Uranium(III) Complex Derived from a Chelating Bis(aryloxy) Ligand. <i>Organometallics</i> , 2017, 36, 4539-4545.	1.1	37
45	The Reductive Activation of $\text{CO}_{2\text{}}$ Across a $\text{Ti}=\text{Ti}$ Double Bond: Synthetic, Structural, and Mechanistic Studies. <i>Organometallics</i> , 2015, 34, 4816-4829.	1.1	36
46	Single-molecule magnet properties of a monometallic dysprosium pentalene complex. <i>Chemical Communications</i> , 2018, 54, 7085-7088.	2.2	36
47	A Bimetallic Bis-pentalene Sandwich Complex: Synthesis and Structure of $\text{Mo}_2[\text{C}_8\text{H}_4(1,4\text{-SiPri}_3)_2]_2$. <i>Organometallics</i> , 1998, 17, 1934-1936.	1.1	35
48	The first mononuclear I^8 -coordinated pentalene complex: synthesis and molecular structure of $[\text{Ta}(\text{I}^8\text{-C}_8\text{H}_4(\text{SiMe}_3)_2\text{-1,4})\text{Cl}_3]$. <i>Chemical Communications</i> , 1997, , 1541-1542.	2.2	34
49	Computational insight into the reductive oligomerisation of CO at uranium(iii) mixed-sandwich complexes. <i>Chemical Communications</i> , 2012, 48, 4118.	2.2	34
50	Bonding in Bis(pentalene)dimolybdenum: Density Functional Calculations on $\text{Mo}_2(\text{C}_8\text{H}_6)_2$ and Photoelectron Spectroscopy of $\text{Mo}_2(\text{C}_8\text{H}_4(1,4\text{-SiPri}_3)_2)_2$. <i>Organometallics</i> , 1999, 18, 1087-1090.	1.1	33
51	A Dichromium(II) Bis(I^8 -pentalene) Double-Sandwich Complex with a Spin Equilibrium: Synthetic, Structural, Magnetic, and Theoretical Studies. <i>Organometallics</i> , 2008, 27, 2013-2020.	1.1	33
52	Reductive deoxygenation of $\text{CO}_{2\text{}}$ by a bimetallic titanium bis(pentalene) complex. <i>Chemical Communications</i> , 2014, 50, 2769-2771.	2.2	32
53	A study of the molecular and electronic structures of the indium(I) phospholyls $[\text{In}(\text{I}^5\text{-P}2\text{C}_3\text{But}_3)]$ and $[\text{In}(\text{I}^5\text{-P}3\text{C}_2\text{But}_2)]$ by X-ray diffraction, photoelectron spectroscopy and density functional theory. <i>Dalton Transactions RSC</i> , 2000, , 1715-1721.	2.3	31
54	Electronic Structure and Photoelectron Spectra of Bis-pentalene Complexes of Thorium and Uranium. <i>Organometallics</i> , 1999, 18, 1080-1086.	1.1	30

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55	Theoretical investigation of the pathway for reductive cleavage of dinitrogen by a vanadium diamidoamine complex. <i>Chemical Communications</i> , 2000, , 927-928.	2.2	30
56	Yttrium iodide and bis(trimethylsilyl)methyl complexes of the chelating diamide [ArN(CH ₂) ₃ NAr] ₂ (Ar) Tj ETQq0 0.0 rgBT /Overlock 10	2.3	30
57	Bis(pentalene)di-titanium: a bent double-sandwich complex with a very short Ti–Ti bond. <i>Chemical Communications</i> , 2013, 49, 9434.	2.2	29
58	A study of the molecular and electronic structure of iron(II) and ruthenium(II) 1,3-di- and 1,2,4-tri-phospholyl sandwich compounds by photoelectron spectroscopy and density functional theory. <i>Dalton Transactions RSC</i> , 2001, , 1013-1022.	2.3	28
59	Mixed sandwich thorium complexes incorporating bis(tri-isopropylsilyl)cyclooctatetraenyl and pentamethylcyclopentadienyl ligands: synthesis, structure and reactivity. <i>Dalton Transactions</i> , 2015, 44, 2588-2596.	1.6	28
60	Synthesis and Reactivity of a Mixed-Sandwich Uranium(IV) Primary Amido Complex. <i>Organometallics</i> , 2015, 34, 2102-2105.	1.1	26
61	Studies on high-temperature amination reactions of aromatic chlorides using discrete Palladium-N-Heterocyclic Carbene (NHC) complexes and in situ palladium/imidazolium salt protocols. <i>Molecular Diversity</i> , 2003, 7, 115-123.	2.1	25
62	Reductive coupling of carbon monoxide by U(III) complexes—a computational study. <i>Dalton Transactions</i> , 2011, 40, 11080.	1.6	22
63	Activation of carbon dioxide by new mixed sandwich uranium(IV) complexes incorporating cyclooctatetraenyl and pyrrolide, phospholide, or arsolide ligands. <i>New Journal of Chemistry</i> , 2015, 39, 7602-7607.	1.4	22
64	Synthesis and structural characterisation of lanthanide and actinide phosphoorganometallic complexes derived from the 3,5-di-tert-butyl-1,2,4-triphospholyl ring anion, P ₃ C ₂ But ²⁻ : Crystal and molecular structures of [M(μ ⁵ -P ₃ C ₂ But) ₂ (μ ² -P ₃ C ₂ But ₂)] (M=Sc, Y, Tm, and U). <i>Journal of Organometallic Chemistry</i> , 2008, 693, 2287-2292.	0.8	21
65	Bonding in Complexes of Bis(pentalene)ditanium, Ti ₂ (C ₈ H ₆) ₂ . <i>Organometallics</i> , 2015, 34, 4830-4843.	1.1	20
66	Synthesis and reactivity of alkylpalladium N-heterocyclic carbene complexes. <i>Chemical Communications</i> , 2007, , 1157.	2.2	19
67	Samarium(III) Pentalene Sandwich Compounds [Sm(μ ⁸ -C ₈ H ₄ {SiPr ₃ -1,4}) ₂ (Cp*)] and [Sm(μ ⁸ -C ₈ H ₄ {SiPr ₃ -1,4}) ₂ (μ ⁵ -C ₈ H ₅ {SiPr ₃ -1,4})] and a Mixed-Valence Hexasamarium Cluster Derived from Sm(II)-Based Solvent Activation. <i>Organometallics</i> , 2008, 27, 5612-5618.	1.1	19
68	Sterically encumbered mixed sandwich compounds of uranium(III): Synthesis and reactivity with small molecules. <i>Journal of Organometallic Chemistry</i> , 2018, 857, 110-122.	0.8	19
69	The experimental determination of Th(IV)/Th(III) redox potentials in organometallic thorium complexes. <i>Dalton Transactions</i> , 2019, 48, 10782-10784.	1.6	19
70	Synthesis, crystal and molecular structures of the novel, structurally different, cage compounds P ₆ C ₄ But ₄ Si ₂ and P ₆ C ₄ But ₄ Ge ₂ , resulting from intra-molecular coupling of two 1,2,4-triphospholyl rings. <i>Chemical Communications</i> , 2000, , 879-880.	2.2	18
71	Double-Sandwich Pentalene Complexes M ₂ (pentalene) ₂ (M = Rh, Pd; Tj ETQq1 1 0.784314 rgBT /C	1.1	18
72	Formation of cyanates in low-valent uranium chemistry: a synergistic experimental/theoretical study. <i>Dalton Transactions</i> , 2014, 43, 11202-11208.	1.6	18

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73	Ethene Activation and Catalytic Hydrogenation by a Low-Valent Uranium Pentalene Complex. Journal of the American Chemical Society, 2020, 142, 89-92.	6.6	18
74	Mononuclear tantalum (V) pentalene complexes: synthesis of $[\text{Ta}\{\text{1-8-C}_8\text{H}_4(1,4\text{-SiPr}_3)_2\}\text{X}_3]$ ($\text{X}=\text{CH}_3, \text{Cl}, \text{I}$) and the X-ray crystal structures of $[\text{Ta}\{\text{1-8-C}_8\text{H}_4(1,4\text{-SiPr}_3)_2\}(\text{CH}_3)_3]$, $[\text{Ta}\{\text{1-8-C}_8\text{H}_4(1,4\text{-SiPr}_3)_2\}(\text{CH}_3)_2\text{Cl}]$, $[\text{Ta}\{\text{1-8-C}_8\text{H}_4(1,4\text{-SiPr}_3)_2\}(\text{CH}_3)\text{Cl}_2]$ and $[\text{Ta}\{\text{1-8-C}_8\text{H}_4(1,4\text{-SiPr}_3)_2\}\text{I}_3]$. Polyhedron, 2004, 23, 2625-2630.	1.0	17
75	Carbon-Silicon Bond Activation by $[\text{Pd}(\text{tBu})_2]$ - the Molecular Structures of $[\text{Pd}(\text{Me}_3\text{Si})(\text{tBu})(\text{1}^{1/4}\text{-I})_2]$ and $[\text{Pd}(\text{CH}_2\text{tBu})\text{I}_2]$. European Journal of Inorganic Chemistry, 2009, 2009, 1844-1850.	1.0	17
76	The First Example of the Two-Electron Reduction of a Phosphaalkyne – Synthesis and Structural Characterisation of the Diuranium(IV) Pentalene Complex $[(\text{U}\{\text{1-8-C}_8\text{H}_4(1,4\text{-SiPr}_3)_2\}\text{C}\text{Me})_2\{\text{1-8-C}_8\text{H}_4(1,4\text{-SiPr}_3)_2\}(\text{Si}(\text{i-Pr})_3)_3]$ European Journal of Inorganic Chemistry, 2013, 2013, 4085-4089.	1.0	17
77	Mixed sandwich imido complexes of Uranium(V) and Uranium(IV): Synthesis, structure and redox behaviour. Journal of Organometallic Chemistry, 2018, 857, 25-33.	0.8	16
78	Syntheses of complexes containing the novel 1,2,3-azadiphosphole and 1,2,5-azadiphosphole ring		

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91	Syntheses, structural studies, photoelectron spectra and density functional theory calculations of the "pseudo-tetraphospha-metallocenes [M(μ -P ₂ C ₃ Bu ^{sup} t) ₃] ₂ , (M = Ni, Pd, Pt). Dalton Transactions, 2009, , 1164-1171.	1.6	4
92	Complexes of iron(II) with silylated pentalene ligands; building blocks for homo- and heterobimetallics. Polyhedron, 2016, 116, 26-37.	1.0	3
93	Arene Complexes of the Group 3 Metals and Lanthanides. , 2022, , 405-459.		1
94	The First Delocalized Phosphole Containing a Planar Tricoordinate Phosphorus Atom: 1-[Bis(trimethylsilyl)methyl]-3,5-bis(trimethylsilyl)-1,2,4-triphosphole. Angewandte Chemie - International Edition, 1998, 37, 1083-1086.	7.2	1
95	Efficiency of Two-Coordinate Palladium(0) N-Heterocyclic Carbene Complexes in Amination and Suzuki-Miyaura Reactions of Aryl Chlorides.. ChemInform, 2006, 37, no.	0.1	0
96	Frontispiz: Synthesis of an [(NHC)2Pd(SiMe3)2] Complex and Catalyticcis-Bis(silyl)ations of Alkynes with Unactivated Disilanes. Angewandte Chemie, 2015, 127, n/a-n/a.	1.6	0
97	Frontispiece: Synthesis of an [(NHC)2Pd(SiMe3)2] Complex and Catalyticcis-Bis(silyl)ations of Alkynes with Unactivated Disilanes. Angewandte Chemie - International Edition, 2015, 54, n/a-n/a.	7.2	0
98	Reactions of a Bis(pentalene)ditanium complex with alkenes; the molecular structure of the butadiene complex [Ti2(μ : η -5, η -5-Pn) μ : η -4: η -2, η -2-s-trans-C4H6)] (Pn = 1,4-(Si Pr3)2-C8H4). Polyhedron, 2022, 210, 115574.	1.0	0