

PUBLICATIONS: W. CLEGG 1983

81. Cyclisation of (fluorosilyl)phosphanes to 1,3-diphospha-2,4-disilacyclobutanes – crystal structure determinations
W. Clegg, M. Haase, U. Klingebiel and G. M. Sheldrick.
Chem. Ber. 1983, **116**, 146–151.
82. On the existence of a silaolefin: synthesis and crystal structures of Wittig and Diels-Alder products in reactions of lithiated (fluorosilyl)diazadisilacyclopentenes with benzaldehyde and methacrolein
W. Clegg, O. Graalman, M. Haase, U. Klingebiel, G. M. Sheldrick, P. Werner, G. Henkel and B. Krebs.
Chem. Ber. 1983, **116**, 282–289.
83. Synthesis of cyclic silylhydrazines – crystal structure of a five-membered cross dimerisation product
W. Clegg, M. Haase, H. Hluchy, U. Klingebiel and G. M. Sheldrick.
Chem. Ber. 1983, **116**, 290–298.
84. Refinement of cell and orientation parameters in four-circle diffractometry: the selection of orientation parameters
W. Clegg.
Acta Cryst. 1983, **A39**, 170–171.
85. The synthesis of $[\text{Ru}_5\text{C}(\text{CO})_{15}]$ by the carbonylation of $[\text{Ru}_6\text{C}(\text{CO})_{17}]$ and the reactions of the pentanuclear cluster with a variety of small molecules: the X-ray structure analyses of $[\text{Ru}_5\text{C}(\text{CO})_{15}]$, $[\text{Ru}_5\text{C}(\text{CO})_{15}(\text{MeCN})]$, $[\text{Ru}_5\text{C}(\text{CO})_{14}(\text{PPh}_3)]$, $[\text{Ru}_5\text{C}(\text{CO})_{13}(\text{PPh}_3)_2]$, and $[\text{Ru}_5(\mu\text{-H})_2\text{C}(\text{CO})_{12}\{\text{Ph}_2\text{P}(\text{CH}_2)_2\text{PPh}_2\}]$
B. F. G. Johnson, J. Lewis, J. N. Nicholls, J. Puga, P. R. Raithby, M. J. Rosales, M. McPartlin and W. Clegg.
J. Chem. Soc. Dalton Trans. 1983, 277–290.
86. Tetrakis(tetrasulphur tetranitrogen dioxide)silver hexafluoroarsenate(V)
H. W. Roesky, M. Thomas, H. G. Schmidt, W. Clegg, M. Noltemeyer and G. M. Sheldrick.
J. Chem. Soc. Dalton Trans. 1983, 405–407.
87. 4-Chloro-1,2,3,5-dithiadiazolium salts
H.-U. Höfs, R. Mews, W. Clegg, M. Noltemeyer, M. Schmidt and G. M. Sheldrick.
Chem. Ber. 1983, **116**, 416–423.
88. *N,N'*-Dihalogenoethanediiimidoyl difluorides
A. Waterfeld, W. Isenberg, R. Mews, W. Clegg and G. M. Sheldrick.
Chem. Ber. 1983, **116**, 724–731.
89. The synthesis of the first hexaruthenium nitrosyl cluster species; X-ray analysis of $\text{Ru}_6\text{C}(\text{CO})_{14}(\text{NO})_2$ and $\text{Ru}_6\text{C}(\text{CO})_{15}(\text{NO})(\text{AuPPh}_3)$
B. F. G. Johnson, J. Lewis, W. J. H. Nelson, J. Puga, P. R. Raithby, D. Braga, M. McPartlin and W. Clegg.
J. Organomet. Chem. 1983, **243**, C13–C16.
90. Preparation and crystal structure of some $\text{MSb}_5\text{O}_{13}$ compounds ($\text{M} = \text{H}_3\text{O}, \text{Na}, \text{K}$)
D. Bodenstein, W. Clegg, G. Jäger, P. G. Jones, H. Rumpel, E. Schwarzmann and G. M. Sheldrick.
Z. Naturforsch. 1983, **38b**, 172–176.
91. Attack by a lithiated aminofluorosilane on the C–O bond of $\text{Cr}(\text{CO})_6$; formation of isonitrile complexes
W. Clegg, U. Klingebiel and G. M. Sheldrick.
Z. Naturforsch. 1983, **38b**, 260–261.

92. Structure of 1,1'-fluoroboranediybis(3-fluorodimethylsilyl-2,2,4,4,6,6-hexamethylcyclotrisilazane), $C_{16}H_{50}BF_3N_6Si_8$
W. Clegg.
Acta Cryst. 1983, **C39**, 387–389.
93. Preparation, crystal structure, and spectroscopic studies of $[NPr^n]_2[(PhS)CuS_2MoS_2]$ and $[NPr^n]_2[(PhS)CuS_2MoS_2Cu(SPh)]$, containing benzenethiolatocopper(I)-tetrathiomolybdate(VI) complex anions
S. R. Acott, C. D. Garner, J. R. Nicholson and W. Clegg.
J. Chem. Soc. Dalton Trans. 1983, 713–719.
94. Preparation and X-ray crystal structure of $[(OC)_3Mo\{P_2[MeNC(O)NMe]_2\}_3Mo(CO)_3]$
H. W. Roesky, D. Amirzadeh-Asl, W. Clegg, M. Noltemeyer and G. M. Sheldrick.
J. Chem. Soc. Dalton Trans. 1983, 855–856.
95. Structure of bis(tetraphenylphosphonium) tris[chlorocopper(I)]tetrathiomolybdate(VI) methyl cyanide solvate, $[Ph_4P]_2[MoS_4(CuCl)_3]\cdot CH_3CN$
W. Clegg, C. D. Garner and J. R. Nicholson.
Acta Cryst. 1983, **C39**, 552–554.
96. Ligation by a *cis*-dithio-molybdenum(VI) moiety: preparation and crystal structure of $\{[piperidine-N-oxide(1-)]_2Mo-(\mu_2-S)_2Cu-\mu_2-Cl\}_2$
S. Bristow, C. D. Garner and W. Clegg.
Inorg. Chim. Acta 1983, **76**, L261–L262.
97. Cobalt(II) complexes of 6-methyl-2-oxypyridine (mhp): crystal structure of $Co_{12}(OH)_6(O_2CCH_3)_6(mhp)_{12}$
W. Clegg, C. D. Garner and M. H. Al-Samman.
Inorg. Chem. 1983, **22**, 1534–1538.
98. Stabilisation of silicene ylids by adduct formation with aluminium trihalides: the crystal structure of $[(Me_3C)_2SiNCMe_3]_2AlClF_2$
W. Clegg, U. Klingebiel, J. Neemann and G. M. Sheldrick.
J. Organomet. Chem. 1983, **249**, 47–54.
99. Structure and reactivity of the anionic alkeneosmium cluster, $[1,1,1,2,2,2,3,3,3,3\text{-decacarbonyl-2-bromo-1-}\eta^2\text{-trans-1,1,1,4,4,4-hexafluorobut-2-ene-triangularo-triosmium}]^-$: X-ray crystal structures of $[(Ph_3P)_2N][Os_3(CO)_{10}\{CF_3(H)C=C(H)CF_3\}Br]$, $[(Ph_3P)_2N][Os_3(CO)_9\{CF_3(H)C=C(H)CF_3\}(\mu-Br)]$, and $[HOs_3(CO)_9\{CF_3(H)C=C(H)CF_3\}(\mu-Br)]$
Z. Dawoodi, M. J. Mays, P. R. Raithby, K. Henrick, W. Clegg and G. Weber.
J. Organomet. Chem. 1983, **249**, 149–164.
100. Azomethine derivatives. Part 20. Crystal and molecular structures of the lithioketimine $\{[Li(N=CBu^t_2)]_6\}$ and lithioguanidine $\{[Li(N=C(NMe_2)_2)]_6\}$; electron-deficient bridging of Li_3 triangles by methyleneamino nitrogen atoms.
W. Clegg, R. Snaith, H. M. M. Shearer, K. Wade and G. Whitehead.
J. Chem. Soc. Dalton Trans. 1983, 1309–1317.
101. Structure of 1,1,3,3-tetraisopropyl-1,3-disiloxanediol, $C_{12}H_{30}O_3Si_2$
W. Clegg.
Acta Cryst. 1983, **C39**, 901–903.
102. Synthesis and hydrolysis of a fluorosilyl-*t*-butylaminodichloroalane. Crystal structures of the cyclic compounds $[(Me_3SiNMe)_2SiNCMe_3]_2$ and $(Me_3CNHAlCl_2)_2$
W. Clegg, M. Haase, U. Klingebiel, J. Neemann and G. M. Sheldrick.
J. Organomet. Chem. 1983, **251**, 281–287.

- 103.** The one-electron oxidation of diazasilacyclopentenes
O. Graalman, M. Hesse, U. Klingebiel, W. Clegg, M. Haase and G. M. Sheldrick.
Angew. Chem. Internat. Edit. Engl. 1983, **22**, 621–622.
Supplement 1983, 874–886.
- 104.** Structure of tris(tetraphenylphosphonium) tris[chlorocopper(I)]oxotrithiomolybdate(VI) dichlorocuprate(I), $[\text{Ph}_4\text{P}]_3[\text{MoOS}_3(\text{CuCl})_3][\text{CuCl}_2]$
W. Clegg, C. D. Garner, J. R. Nicholson and P. R. Raithby.
Acta Cryst. 1983, **C39**, 1007–1009.
- 105.** Structures of 2,9-di-*tert*-butyl-1,1,4,6,8,8,11,12-octamethyl-6,12-diphenyl-2,3,9,10-tetraaza-1,6,8,12-tetrasiladispiro[4.1.4.1]dodeca-3,10-diene, $\text{C}_{32}\text{H}_{52}\text{N}_4\text{Si}_4$, (1), and 1,6-bis[bis(trimethylsilyl)amino]-3,5,8,10-tetramethyl-4,5,9,10-tetraaza-1,6-disilatricyclo[5.3.0.0^{2,6}]deca-3,8-diene, $\text{C}_{20}\text{H}_{50}\text{N}_6\text{Si}_6$, (2)
W. Clegg.
Acta Cryst. 1983, **C39**, 1106–1108.
- 106.** Steric and crystal-packing effects on the molecular structures of dimetal(II) tetrakis(2-oxypyridine) complexes
W. Clegg, C. D. Garner, L. Akhter and M. H. Al-Samman.
Inorg. Chem. 1983, **22**, 2466–2468.
- 107.** Reaction of triruthenium dodecacarbonyl with nitrobenzene and structure of μ_3 -phenylnitrene-triruthenium decacarbonyl, $[\text{Ru}_3(\text{CO})_{10}(\mu_3\text{-NPh})]$
S. Bhaduri, K. S. Gopalkrishnan, G. M. Sheldrick, W. Clegg and D. Stalke.
J. Chem. Soc. Dalton Trans. 1983, 2339–2341.
- 108.** Synthesis and crystal structure of $[\text{PPh}_4]_2[\text{MoS}_4(\text{CuBr})_4]\cdot\text{Me}_2\text{CO}$; the assembly of four copper(I) centres about a tetrathiomolybdate(VI) moiety
J. R. Nicholson, A. C. Flood, C. D. Garner and W. Clegg.
J. Chem. Soc. Chem. Commun. 1983, 1179–1180.
- 109.** Crystal structure of the complex *cis*-oxobis[piperidine *N*-oxido(1-)-*NO*]thiomolybdenum(VI), containing a *cis*- MoOS^{2+} group
S. Bristow, D. Collison, C. D. Garner and W. Clegg.
J. Chem. Soc. Dalton Trans. 1983, 2495–2499.
- 110.** Towards [6.5]coronane – fivefold cyclobutylmethyl-cyclopentyl rearrangement in a pentaspirohene-icosanol
L. Fitjer, M. Giersig, W. Clegg, N. Schormann and G. M. Sheldrick.
Tet. Letters 1983, **24**, 5351–5354.
- 111.** $[\text{Ni}(\text{S}_4)_2]^{2-}$, a homoleptic tetrasulfido-nickel(II) complex
A. Müller, E. Krickemeyer, H. Bögge, W. Clegg and G. M. Sheldrick.
Angew. Chem. Internat. Edit. Engl. 1983, **22**, 1006–1007.
- 112.** Triply bridged binuclear complexes of oxomolybdenum(V) with thiolate ligands
I. Buchanan, W. Clegg, C. D. Garner and G. M. Sheldrick.
Inorg. Chem. 1983, **22**, 3657–3661.
- 113.** Synthesis of silicon-phosphorus rings – structure of a *cis*-2,2,4,4-tetrakis(silylamino)-1,3-diphospha-2,4-disilacyclobutane
U. Klingebiel, N. Vater, W. Clegg, M. Haase and G. M. Sheldrick.
Z. Naturforsch. 1983, **38b**, 1557–1562.