

PUBLICATIONS: W. CLEGG 2002

- 762.** Structure Reports Online: the first year
W. Clegg and D. G. Watson.
Acta Cryst. 2002, **E58**, e1.
- 763.** Controlled stepwise conversion of 2,4,6,8-tetrachloropyrimido[5,4-*d*]pyrimidine into 2,4,6,8-tetrasubstituted pyrimido[5,4-*d*]pyrimidines
J. S. Northen, F. T. Boyle, W. Clegg, N. J. Curtin, A. J. Edwards, R. J. Griffin and B. T. Golding.
J. Chem. Soc. Perkin Trans. 1 2002, 108–115.
- 764.** Inner- and outer-sphere binding of the minor groove site of adenine by alkali metal ions
A. E. Gibson, C. Price, W. Clegg and A. Houlton.
J. Chem. Soc. Dalton Trans. 2002, 131–133.
- 765.** Formation (and properties) of palladium derivatives of $[\text{Mo}_3\text{Q}_4(\text{H}_2\text{O})_9]^{4+}$: absence of similar derivatives of $[\text{W}_3\text{Q}_4(\text{H}_2\text{O})_9]^{4+}$ (Q = S, Se)
V. P. Fedin, M.-S. Seo, D. M. Saysell, D. N. Dybtsev, M. R. J. Elsegood, W. Clegg and A. G. Sykes.
J. Chem. Soc. Dalton Trans. 2002, 138–143.
- 766.** Making conjugated connections to porphyrins: a comparison of alkyne, alkene, imine and azo links
T. E. O. Screen, I. M. Blake, L. H. Rees, W. Clegg, S. J. Borwick and H. L. Anderson.
J. Chem. Soc. Perkin Trans. 1 2002, 320–329.
- 767.** Unusual solvent-promoted Smiles rearrangement of two different phosphorus-containing organolithium compounds to the same lithium phosphide. Crystal structure of $\text{MeP}\{\text{C}_6\text{H}_4\text{-2-CH}(\text{C}_6\text{H}_4\text{-2-CH}_2\text{NMe}_2)\text{NMe}_2\}\text{Li}(\text{THF})_2$
K. Izod, P. O'Shaughnessy and W. Clegg.
Organometallics 2002, **21**, 641–646.
- 768.** Tetrakis(μ -benzoato)bis[(*N,N*-diethylnicotinamide)zinc(II)]
H. Necefoglu, W. Clegg and A. J. Scott.
Acta Cryst. 2002, **E58**, m121–m122.
- 769.** A linear trinuclear CaZn_2 complex with bridging benzoate ligands
H. Necefoglu, W. Clegg and A. J. Scott.
Acta Cryst. 2002, **E58**, m123–m124.
- 770.** Kinetic evidence for intramolecular proton transfer between nickel and coordinated thiolate
W. Clegg and R. A. Henderson.
Inorg. Chem. 2002, **41**, 1128–1135.
- 771.** A high yielding route to substituted piperidines via the aza-Diels-Alder reaction
P. D. Bailey, P. D. Smith, F. Pederson, W. Clegg, G. M. Rosair and S. J. Teat.
Tet. Letters 2002, **43**, 1067–1070.
- 772.** Synthesis of a new class of 1,4-bis(diphenylphosphino)-1,3-butadiene bridged diphosphine, NUPHOS, via zirconium-mediated reductive coupling of alkynes and diynes: applications in palladium-catalyzed cross-coupling reactions
S. Doherty, E. G. Robins, M. Nieuwenhuyzen, J. G. Knight, P. A. Champkin and W. Clegg.
Organometallics 2002, **21**, 1383–1399.

- 773.** Hexakis(antipyrine-O)terbium(III) triiodide at 160K: confirmation of a centrosymmetric structure for a brilliantly triboluminescent complex
W. Clegg, G. Bourhill and I. Sage.
Acta Cryst. 2002, **E58**, m159–m161.
- 774.** Preparation and characterization of triangular clusters $[M_3Q_4(acac)_3(py)_3]^+$ (M = Mo, W; Q = S, Se)
R. Hernandez-Molina, M. Sokolov, W. Clegg and A. Mederos.
Inorg. Chim. Acta 2002, **331**, 52–58.
- 775.** An unexpected transamination of bis[bis(trimethylsilyl)amido]zinc with dibenzylamine to form bis(dibenzylamido)zinc: structural studies by NMR spectroscopy, X-ray crystallography and theoretical calculations
D. R. Armstrong, G. C. Forbes, R. E. Mulvey, W. Clegg and D. M. Tooke.
J. Chem. Soc. Dalton Trans. 2002, 1656–1661.
- 776.** Self-complementary metal complexes containing a DNA base pair
C. Price, B. R. Horrocks, A. Mayeux, M. R. J. Elsegood, W. Clegg and A. Houlton.
Angew. Chem. Internat. Edit. Engl. 2002, **41**, 1047–1049.
- 777.** Iminophosphines: synthesis, formation of 2,3-dihydro-1*H*-benzo[1,3]azaphosphol-3-ium salts and *N*-(pyridin-2-yl)-2-diphenylphosphinoylaniline, coordination chemistry and applications in platinum group catalyzed Suzuki coupling reactions and hydrosilylations
S. Doherty, J. G. Knight, T. H. Scanlan, M. R. J. Elsegood and W. Clegg.
J. Organomet. Chem. 2002, **650**, 231–248.
- 778.** Characterization and dynamics of $[Pd(L-L)H(solvent)]^+$, $[Pd(L-L)(CH_2CH_3)]^+$, and $[Pd(L-L)(C(O)Et)(THF)]^+$ (L-L = 1,2-(CH₂PBu^t₂)₂C₆H₄): key intermediates in the catalytic methoxycarbonylation of ethene to methylpropanoate
W. Clegg, G. R. Eastham, M. R. J. Elsegood, B. T. Heaton, J. A. Iggo, R. P. Tooze, R. Whyman and S. Zacchini.
Organometallics 2002, **21**, 1832–1840.
- 779.** A solid state and theoretical study of the solvent effects controlling the mono- and di-lithiation of aromatic primary amines
D. R. Armstrong, S. C. Ball, D. Barr, W. Clegg, D. J. Linton, L. C. Kerr, D. Moncrieff, P. R. Raithby, R. J. Singer, R. Snaith, D. Stalke, A. E. H. Wheatley and D. S. Wright.
J. Chem. Soc. Dalton Trans. 2002, 2505–2511.
- 780.** Diverse evolution of $[{\{Ph_2P(CH_2)_nPPh_2\}Pt(\mu-S)_2Pt(\{Ph_2P(CH_2)_nPPh_2\})}$ (n = 2, 3) metalloligands in CH₂Cl₂
R. Mas-Ballesté, M. Capdevila, P. A. Champkin, W. Clegg, R. A. Coxall, A. Lledós, C. Mégret and P. González-Duarte.
Inorg. Chem. 2002, **41**, 3217–3229.
- 781.** Synthesis, characterization and crystal structure determination of (NEt₄)₂[MS₄(CuBp')₂]·X (M = Mo, X = (CH₃)₂CO; M = W, X = CH₃CN; Bp' = H₂B(3,5-Me₂Pz)₂)
A. Beheshti, W. Clegg and M. H. Sadr.
Inorg. Chim. Acta 2002, **335**, 21–26.
- 782.** Structural chemistry of *arachno*-nonaboranes
J. Bould, R. Greatrex, J. D. Kennedy, D. L. Ormsby, M. G. S. Londesborough, K. L. F. Callaghan, M. Thornton-Pett, T. R. Spalding, S. J. Teat, W. Clegg, H. Fang, N. P. Rath and L. Barton.
J. Am. Chem. Soc. 2002, **124**, 7429–7439.
- 783.** Bis(tetraethylammonium) bis[cyanocuprate(I)]tetrathiomolybdate(VI) hydrate
W. Clegg, A. Beheshti and M. Hosaini Sadr.
Acta Cryst. 2002, **E58**, m349–m351.

- 784.** (4*S*,5*S*)-4-Methyl-5-(4-tolylthiocarbonyl)oxazolidin-2-one
W. Clegg and M. R. J. Elsegood.
Acta Cryst. 2002, **E58**, o758–o759.
- 785.** (4*RS*,5*RS*)-4-Phenyl-5-(4-tolylthiocarbonyl)oxazolidin-2-one
W. Clegg and M. R. J. Elsegood.
Acta Cryst. 2002, **E58**, o760–o762.
- 786.** (4*RS*,5*RS*)-4-Benzyl-5-(4-tolylthiocarbonyl)oxazolidin-2-one
W. Clegg and M. R. J. Elsegood.
Acta Cryst. 2002, **E58**, o763–o764.
- 787.** (4*S*,5*S*)-4-Benzyl-oxooxazolidine-5-carboxylic acid
W. Clegg and M. R. J. Elsegood.
Acta Cryst. 2002, **E58**, o765–o766.
- 788.** (4*S*,5*S*)-2-Benzyloxy-4-methyl-5-(4-tolylthiocarbonyl)oxazoline
W. Clegg and L. Horsburgh.
Acta Cryst. 2002, **E58**, o767–o768.
- 789.** Synthesis and structures of the $\text{WOS}_3\text{Cu}_3\text{Pz}_3\text{Cl}$ and $[\text{PPh}_4]_4[\{\text{WOS}_3(\text{CuNCSe})_3\}_2]$ clusters (Pz = pyrazole), and structure of $[\text{PPh}_4]_2[\text{Cu}(\text{NCS})_4]$
A. Beheshti, W. Clegg, R. Hyvadi and H. F. Hekmat.
Polyhedron 2002, **21**, 1547–1552.
- 790.** Metallocene–DNA: synthesis, molecular and electronic structure and DNA incorporation of C5-ferrocenylthymidine derivatives
A. Pike, L. C. Ryder, B. R. Horrocks, W. Clegg, M. R. J. Elsegood, B. A. Connolly and A. Houlton.
Chem. Eur. J. 2002, **8**, 2891–2899.
- 791.** Teaching crystallography through an intensive course
A. J. Blake, W. Clegg, J. A. K. Howard, P. Main, S. Parsons, D. J. Watkin and C. Wilson.
Z. Krist. 2002, **217**, 427–428.
- 792.** Monocarborane anion chemistry. The substantiation of the C-arylated $[\text{PhCB}_5\text{H}_6]^-$ seven-vertex *closo* cluster anion by single-crystal synchrotron X-ray diffraction analysis
A. Franken, D. L. Ormsby, C. A. Kilner, W. Clegg, M. Thornton-Pett and J. D. Kennedy.
J. Chem. Soc. Dalton Trans. 2002, 2807–2808.
- 793.** A homologous series of alkaline earth phosphanides: syntheses, crystal structures, and unusual dynamic behavior of $(\text{THF})_n\text{M}[\text{P}\{\text{CH}(\text{SiMe}_3)_2\}(\text{C}_6\text{H}_4\text{-2-CH}_2\text{NMe}_2)]_2$ (M = Mg, Ca, Sr, Ba)
S. Blair, K. Izod and W. Clegg.
Inorg. Chem. 2002, **41**, 3886–3893.
- 794.** Isolation and structural characterisation of two sterically crowded diphosphanes
S. Blair, K. Izod, R. Taylor and W. Clegg.
J. Organomet. Chem. 2002, **656**, 43–48.
- 795.** Chloro-*cis*-dihydro-*mer*-tris(triphenylphosphine)rhodium(III) dichloromethane hemisolvate
W. Clegg, M. R. J. Elsegood, N. C. Norman and N. L. Pickett.
Acta Cryst. 2002, **E58**, m406–m407.
- 796.** Hydridodichlorotris(methyldiphenylphosphine)rhodium(III) dichloromethane trisolvate
W. Clegg, A. J. Scott, N. C. Norman, E. G. Robins and G. R. Whittell.
Acta Cryst. 2002, **E58**, m408–m409.

- 797.** Trichloro(perdeuteroacetonitrile)bis(triphenylphosphine)rhodium(III)
W. Clegg, A. J. Scott, N. C. Norman, E. G. Robins and G. R. Whittell.
Acta Cryst. 2002, **E58**, m410–m411.
- 798.** Macropolyhedral boron-containing cluster chemistry. Models for intermediates en route to globular and discoidal megaloborane assemblies. Structures of [*nido*-B₁₀H₁₂(*nido*-B₅H₈)₂] and [(CH₂CH₂C₅H₄N)-*arachno*-B₁₀H₁₀(NC₅H₄-*closo*-C₂B₁₀H₁₀)] as determined by synchrotron X-ray diffraction analysis
J. Bould, M. G. S. Londesborough, D. L. Ormsby, J. A. H. MacBride, K. Wade, C. A. Kilner, W. Clegg, S. J. Teat, M. Thornton-Pett, R. Greatrex and J. D. Kennedy.
J. Organomet. Chem. 2002, **657**, 256–261.
- 799.** Assembly of polyamines *via* amino acids from three components using cobalt(III) template methodology
G. Laval, W. Clegg, C. G. Crane, A. Hammershøi, A. M. Sargeson and B. T. Golding.
Chem. Commun. 2002, 1874–1875.
- 800.** Trapping of benzene oxide-oxepin and methyl-substituted derivatives with 4-phenyl- and 4-pentafluorophenyl-1,2,4-triazoline-3,5-dione
A. P. Henderson, E. Mutlu, A. Leclercq, C. Bleasdale, W. Clegg, R. A. Henderson and B. T. Golding.
Chem. Commun. 2002, 1956–1957.
- 801.** Synthesis and reactivity of palladium hydrido-solvento complexes, including a key intermediate in the catalytic methoxycarbonylation of ethene to methyl propanoate
W. Clegg, G. R. Eastham, M. R. J. Elsegood, B. T. Heaton, J. A. Iggo, R. P. Tooze, R. Whyman and S. Zacchini.
J. Chem. Soc. Dalton Trans. 2002, 3300–3308.
- 802.** First evidence of fast S—H...S proton transfer in a transition metal complex
G. Aullón, M. Capdevila, W. Clegg, P. González-Duarte, A. Lledós and R. Mas-Ballesté.
Angew. Chem. Internat. Edit. Engl. 2002, **41**, 2776–2778.
- 803.** Palladium complexes of 2-pyridin-2-yl substituted 1,3-bis(diphenylphosphino)propane: highly active catalysts for the room-temperature copolymerization of carbon monoxide with ethene
S. Doherty, E. G. Robins, M. Nieuwenhuyzen, P. A. Champkin and W. Clegg.
Organometallics 2002, **21**, 4147–4158.
- 804.** Dilithio-1,1,2-tris(diphenylphosphinoyl)ethane-1,2-diide: the first formal 1,2-dicarbocation stabilised by phosphorus?
K. Izod, W. McFarlane and W. Clegg.
Chem. Commun. 2002, 2532–2533.
- 805.** Synthesis and structure of the novel octanuclear lithium aryloxide cluster [(hmqLi)₈(THF)₄] (hmq[−] = 2-hydroxy-4-methylquinoline monoanion): formation of a rare four-rung intercepted Li–O ladder
S. T. Liddle and W. Clegg.
J. Chem. Soc. Dalton Trans. 2002, 3923–3924.
- 806.** Synthesis and crystal structures of the 15-crown-5 solvates of potassium- and rubidium-2-trimethylsilylamidopyridine
S. T. Liddle and W. Clegg.
Polyhedron 2002, **21**, 2451–2455.
- 807.** Synthesis of highly hindered oxepins and an azepine from bis-trityl carbenium ions: structural characterisation by NMR and X-ray crystallography
K. A. Carey, W. Clegg, M. R. J. Elsegood, B. T. Golding, M. N. S. Hill and H. Maskill.
J. Chem. Soc. Perkin Trans. 1 2002, 2673–2679.

- 808.** (1*SR*,15*SR*)-9,10,11,15-Tetrahydro-9-[(1*SR*)-1-methoxyethyl]-9,10-[3',4']furanoanthracene-12,14-dione
R. W. Harrington and W. Clegg.
Acta Cryst. 2002, **E58**, o1411–o1412.
- 809.** (3a*SR*,9a*SR*)-3a,4,9,9a-Tetrahydro-4-[(1*SR*)-1-methoxyethyl]-2-methyl-4,9-[1',2']-benzeno-1*H*-benzo[*f*]isoindole-1,3-(2*H*)-dione
R. W. Harrington and W. Clegg.
Acta Cryst. 2002, **E58**, o1413–o1414.
- 810.** Future directions in solid state chemistry: report of the NSF-sponsored workshop
R. J. Cava, F. J. DiSalvo, L. E. Brus, K. R. Dunbar, C. B. Gorman, S. M. Haile,
L. V. Interrante, J. L. Musfeldt, A. Navrotsky, R. G. Nuzzo, W. E. Pickett, A. P. Wilkinson,
C. Ahn, J. W. Allen, P. C. Burns, G. Ceder, C. E. D. Chidsey, W. Clegg, E. Coronado, H. Dai,
M. W. Deem, B. S. Dunn, G. Galli, A. J. Jacobson, M. Kanatzidis, W. Lin, A. Manthiram,
M. Mrksich, D. J. Norris, A. J. Nozik, X. Peng, C. Rawn, D. Rolison, D. J. Singh, B. H. Toby,
S. Tolbert, U. B. Wiesner, P. M. Woodward and P. Yang.
Prog. Solid State Chem. 2002, **30**, 1–101.
- 811.** *Acta Crystallographic Section E (Structure Reports Online)*: Report for 2001
W. Clegg and D. G. Watson.
Acta Cryst. 2002, **A58**, C65.