

Retraction of articles by H. Zhong *et al.*

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A series of 41 papers by H. Zhong *et al.* are retracted.

As a result of problems with the data sets and incorrect atom assignments, 41 papers by H. Zhong *et al.* are retracted. Full details of all the articles are given in Table 1.

Table 1

Details of articles to be retracted, in order of publication.

Title	Reference	DOI	Refcode
<i>Aquachlorobis(1,10-phenanthroline)cobalt(II) chloride thiourea solvate</i>	Zhong, Zeng, Liu & Luo (2006a)	10.1107/S1600536806041122	KERQEE
<i>cis-Dichlorobis(1,10-phenanthroline)cobalt(II)</i>	Zhong, Zeng & Luo (2006)	10.1107/S1600536806047295	MEQFOE
<i>Tris(quinolin-8-olato-κ²N,O)cobalt(III) glyoxal hemisolvate monohydrate</i>	Zhong, Zeng, Liu & Luo (2006b)	10.1107/S1600536806050240	MEQHEW
<i>(8-Quinololinol-κ²N,O)bis(8-quinolinolato-κ²N,O)nickel(II) glyoxal hemisolvate monohydrate</i>	Zhong, Zeng, Liu & Luo (2007)	10.1107/S1600536806053232	METVUD
<i>Aquachlorobis(1,10-phenanthroline)cobalt(II) chloride thioacetamide solvate</i>	Zhong, Zeng & Luo (2007)	10.1107/S1600536806053530	METQIM
<i>(8-Quinololinol-κ²N,O)-bis(8-quinolinolato-κ²N,O)zinc(II) glyoxal hemisolvate monohydrate</i>	Zhong, Zeng, Luo, Li & Xiao (2007)	10.1107/S1600536807001171	DEXTEG
<i>(Dimethylglyoxime-κ²N,N')bis(1,10-phenanthroline-κ²N,N')nickel(II) dinitrate dihydrate</i>	Zhong, Zeng, Yang, Luo & Li (2007a)	10.1107/S1600536807004102	YEYGOZ
<i>(Dimethylglyoxime-κ²N,N')bis(1,10-phenanthroline-κ²N,N')zinc(II) dinitrate dihydrate</i>	Zhong, Zeng, Yang, Luo & Li (2007b)	10.1107/S1600536807004096	YEYGUF
<i>Chloridobis(1,10-phenanthroline-κN,N')copper(I) hexahydrate</i>	Zhong, Zeng, Yang, Luo & Xiao (2007)	10.1107/S160053680700791X	HEGKOU1
<i>Tetrakis(pyridine-κN)bis(thiocyanato-κN)cobalt(II)</i>	Zhong, Zeng, Yang & Luo (2007a)	10.1107/S1600536807017461	ITCPCO1
<i>Tetrakis(pyridine-κN)bis(thiocyanato-κN)copper(II)</i>	Zhong, Zeng, Yang & Luo (2007b)	10.1107/S160053680701879X	AVUJEG02
<i>Tetrakis(nitrato-κ²O,O')bis(4-phenylpyridine-κN)cerium(IV)</i>	Zhong, Zeng, Yang & Luo (2007c)	10.1107/S1600536807018831	CICDOI
<i>Bis(4,4'-bipyridine-κ²N,N')tetrakis(nitrato-κ²O,O')cerium(IV)</i>	Zhong, Zeng, Yang & Luo (2007d)	10.1107/S1600536807021502	YIDNEF
<i>(1,10-Phenanthroline)tris(phenoxyacetato)lanthanum(III)</i>	Zhong, Zeng, Yang, Luo & Xu (2007)	10.1107/S1600536807027171	EDUROL
<i>(1,10-Phenanthroline)tris(phenoxyacetato)cerium(III)</i>	Zhong, Yang, Luo & Xu (2007a)	10.1107/S1600536807028061	EDUTUT
<i>(1,10-Phenanthroline)tri(3-phenylpropanoato)lanthanum(III)</i>	Zhong, Yang, Luo & Xu (2007b)	10.1107/S1600536807028693	RIGQEE
<i>(1,10-Phenanthroline-κ²N,N')tris(phenoxyacetato)-κO;κO;κO,O'-neodymium(III)</i>	Zhong, Yang, Luo & Xu (2007c)	10.1107/S1600536807030371	UDUMEM
<i>Bis(2,2'-bipyridyl-κ²N,N')bis(thiocyanato-κN)nickel(II)</i>	Zhong, Yang, Luo & Xu (2007d)	10.1107/S1600536807031613	YEJGOJ01
<i>Bis(2,2'-bipyridyl-κ²N,N')bis(isothiocyanato-κN)copper(II)</i>	Zhong, Yang, Luo & Xu (2007e)	10.1107/S1600536807033181	UFAPOH
<i>Bis(2,2'-bipyridyl-κ²N,N')bis(thiocyanato-κN)zinc(II)</i>	Zhong, Yang, Luo & Xu (2007f)	10.1107/S1600536807035337	TIGFAR
<i>(1,10-Phenanthroline-κ²N,N')tris(3-phenylpropanoato-κO)neodymium(III)</i>	Zhong, Yang, Luo & Xu (2007g)	10.1107/S1600536807035350	TIGFEV
<i>2-Fluoro-3,5-dinitrobenzamide monohydrate</i>	Zhong, Yang, Xie & Luo (2007j)	10.1107/S1600536807038676	VIKRAY
<i>2-Fluoro-3,5-dinitrobenzoic acid-ammonia (1/1)</i>	Zhong, Yang, Xie & Luo (2007k)	10.1107/S1600536807039724	KILKIA
<i>1-Hydroxy-4,6-dinitropyridine-2-carboxamide monohydrate</i>	Zhong, Yang, Xie & Luo (2007l)	10.1107/S1600536807040779	AFETAH
<i>N-(2-Hydroxyphenyl)carbamic acid-ammonia (1/1)</i>	Zhong, Yang, Xie & Luo (2007m)	10.1107/S160053680704086X	AFINAF
<i>catena-Poly[[bis(μ-anilinoacetato-κ²O:O')bis(μ-anilinoacetato-κ²O:O')bis(1,10-phenanthroline-κ²N,N')samarium(III)]-μ-anilinoacetato-κ²O:O']</i>	Zhong, Yang, Xie & Luo (2007a)	10.1107/S1600536807043528	PILDAQ
<i>2-Hydroxy-5-nitrobenzene-1,3-dicarboxylic acid monohydrate</i>	Zhong, Yang, Xie & Luo (2007n)	10.1107/S1600536807045199	XILWIZ
<i>catena-Poly[[tetra-μ-anilinoacetato-bis(1,10-phenanthroline)-dineodymium(III)]-di-μ-anilinoacetato]</i>	Zhong, Yang, Xie & Luo (2007b)	10.1107/S1600536807048489	WIMWEV
<i>Hexaaquacopper(II) bis(4-methylbenzenesulfonate)</i>	Zhong, Yang, Xie & Luo (2007c)	10.1107/S1600536807049525	TOLSCV01

Table 1 (continued)

Title	Reference	DOI	Refcode
<i>catena-Poly[[tetra-μ-anilinoacetato-bis(1,10-phenanthroline)-dilanthanum(III)]-di-μ-anilinoacetato]</i>	Zhong, Yang, Xie & Luo (2007d)	10.1107/S1600536807051240	GIMZEI
<i>Hexaaquachromium(II) bis(4-methylbenzenesulfonate)</i>	Zhong, Yang, Xie & Luo (2007e)	10.1107/S1600536807051227	GIMZIM
<i>Hexaaquamanganese(II) bis(4-methylbenzenesulfonate)</i>	Zhong, Yang, Xie & Luo (2007f)	10.1107/S1600536807052051	QUKQES01
<i>catena-Poly[(acetato-κO)(1,10-phenanthroline-κ^2N,N')cobalt(II)]-μ-acetato-κ^2O:O']</i>	Zhong, Yang, Xie & Luo (2007g)	10.1107/S1600536807053494	NIQLAB
<i>Hexaaquanickel(II) bis(4-aminobenzenesulfonate)</i>	Zhong, Zhong, Xie & Luo (2007a)	10.1107/S1600536807054372	HIPZOW
<i>catena-Poly[(acetato-κO)(1,10-phenanthroline-κ^2N,N')copper(II)]-μ-acetato-κ^2O:O']</i>	Zhong, Yang, Xie & Luo (2007h)	10.1107/S160053680705622X	XIRGOV
<i>Hexaaquazinc(II) bis(4-aminobenzenesulfonate)</i>	Zhong, Zhong, Xie & Luo (2007b)	10.1107/S1600536807056498	XIRJEO
<i>catena-Poly[(acetato-κO)(1,10-phenanthroline-κ^2N,N')nickel(II)]-μ-acetato-κ^2O:O']</i>	Zhong, Yang, Xie & Luo (2007i)	10.1107/S1600536807058540	HIQJOH
<i>Hexaaquacobalt(II) bis(4-aminobenzenesulfonate)</i>	Zhong, Xie & Luo (2007)	10.1107/S1600536807058527	HIQJUN
<i>catena-Poly[[tetra-μ-anilinoacetato-bis(1,10-phenanthroline)-dieuropium(III)]-di-μ-anilinoacetato]</i>	Zhong, Yang, Duan & Hong (2007)	10.1107/S1600536807060643	YIQMAN
<i>(Dimethylglyoxime-κ^2N,N')bis(1,10-phenanthroline-κ^2N,N')copper(II) dinirate dihydrate</i>	Zhong, Yang, Luo & Li (2007)	10.1107/S1600536807061193	YIQNUI
<i>catena-Poly[(1,10-phenanthroline-κ^2N,N')praseodymium(III)]-di-μ-phenoxyacetato-κ^4O:O'-[(1,10-phenanthroline-κ^2N,N')praseodymium(III)]-di-μ-phenoxyacetato-κ^4O:O'-di-μ-phenoxyacetato-κ^3O,O':κ^3O:O,O']</i>	Zhong, Yang, Luo & Xu (2008)	10.1107/S1600536807068614	GISJIC

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Aquachlorobis(1,10-phenanthroline)cobalt(II)
chloride thioacetamide solvate

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Key indicators

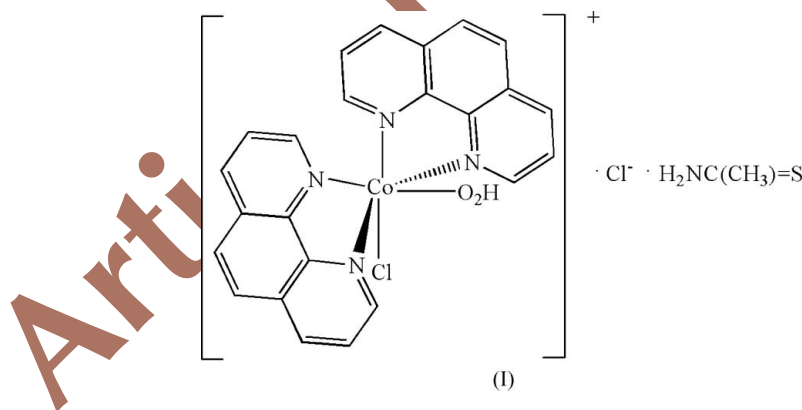
Single-crystal X-ray study
 $T = 273$ K
Mean $\sigma(\text{C}-\text{C}) = 0.008$ Å
 R factor = 0.048
 wR factor = 0.164
Data-to-parameter ratio = 15.4For details of how these key indicators were
automatically derived from the article, see
<http://journals.iucr.org/e>.

The Co atom in the cation of the title complex, $[\text{CoCl}(\text{C}_{12}\text{H}_8\text{N}_2)_2(\text{H}_2\text{O})]\text{Cl}\cdot\text{H}_2\text{NC}(\text{CH}_3)\text{S}$, exists within a distorted octahedral coordination geometry defined by a Cl atom, the O atom of a water molecule, and four N atoms from two 1,10-phenanthroline ligands. Molecules are linked into a three-dimensional framework primarily by $\text{O}-\text{H}\cdots\text{Cl}$ hydrogen bonds and $\pi-\pi$ stacking interactions.

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Comment

$\pi-\pi$ Stacking between aromatic rings is related to electron transfer processes in some biological systems (Deisenhofer & Michel, 1989). A series of metal complexes incorporating different aromatic ligands such as 1,10-phenanthroline (phen), benzimidazole and quinoline have been prepared and their crystal structures determined to provide useful information about $\pi-\pi$ stacking (Wu *et al.*, 2003; Pan & Xu, 2004; Li *et al.*, 2005). In the present study, the structure of (I), obtained from the reaction of cobalt dichloride hexahydrate, thioacetamide and phen in ethanol solution, is described.



The asymmetric unit of (I) comprises a $[\text{Co}(\text{phen})_2(\text{OH}_2)\text{Cl}]^+$ cation, a Cl^- anion and a solvent thioacetamide molecule (Fig. 1). Four N atoms, derived from two phen ligands, a Cl^- anion and one O atom from the water molecule define a distorted octahedral geometry for the Co centre. The phen ligands are nearly perpendicular to each other, as seen in the dihedral angle of $87.51(6)^\circ$ between them. Distortions from the regular octahedral geometry are evident in the different bond distances and acute chelate angles (Table 1). In the crystal structure, ions and solvent molecules are linked into a three-dimensional framework primarily by $\text{O}-\text{H}\cdots\text{Cl}$ hydrogen bonds (Fig. 2 and Table 2). There are $\pi-\pi$ stacking interactions between adjacent phen ligands with centroid-centroid distance of $3.598(4)$ Å [symmetry code: $1 - x, 1 - y, -z$].

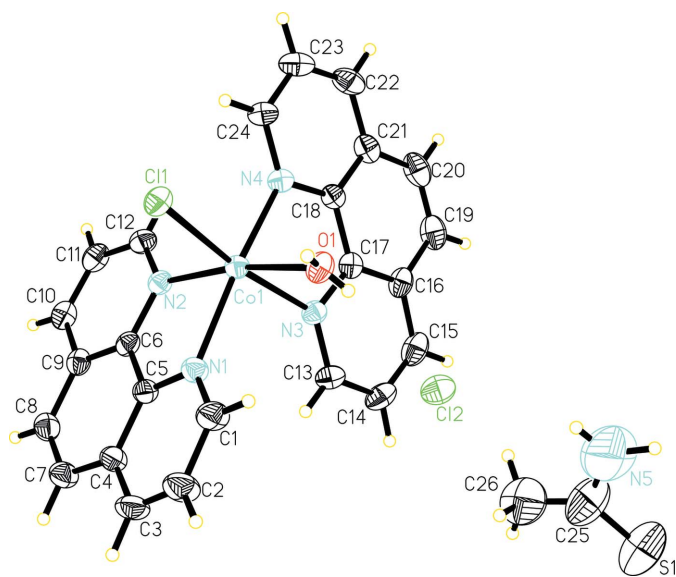


Figure 1
The asymmetric unit of (I), showing 30% probability displacement ellipsoids.

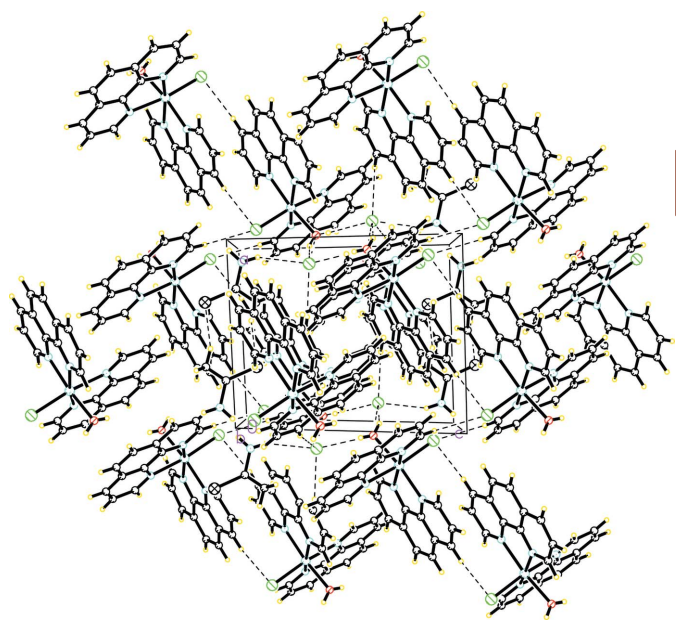


Figure 2
Packing diagram for (I), showing hydrogen bonds as dashed lines.

Experimental

Cobalt dichloride hexahydrate (475 mg, 2 mmol), phen (396 mg, 2 mmol) and thioacetamide (75 mg, 1 mmol) were dissolved in ethanol (25 ml). The mixture was heated for 6 h under reflux with stirring. It was then filtered to give a clear solution, into which diethyl ether vapour was allowed to condense in a closed vessel. After being allowed to stand for a few days at room temperature, some pink single crystals of (I) suitable for X-ray diffraction analysis precipitated.

Crystal data

[CoCl(C₁₂H₈N₂)₂(H₂O)]Cl·C₂H₅NS
M_r = 583.38
 Triclinic, *P* $\bar{1}$
a = 9.785 (3) Å
b = 11.350 (3) Å
c = 12.799 (4) Å
 α = 64.382 (4)°
 β = 86.963 (4)°
 γ = 78.633 (4)°
V = 1255.7 (6) Å³
Z = 2
D_x = 1.543 Mg m⁻³
 Mo *K*α radiation
 μ = 1.01 mm⁻¹
T = 273 (2) K
 Block, pink
 0.42 × 0.27 × 0.17 mm

Data collection

Bruker APEX-II area-detector diffractometer
 φ and ω scans
 Absorption correction: multi-scan (*SADABS*; Sheldrick, 1996)
T_{min} = 0.724, *T_{max}* = 0.846
 8636 measured reflections
 5128 independent reflections
 3284 reflections with *I* > 2σ(*I*)
R_{int} = 0.027
 θ_{max} = 26.7°

Refinement

Refinement on *F*²
R[*F*² > 2σ(*F*²)] = 0.048
wR(*F*²) = 0.164
S = 1.03
 5128 reflections
 333 parameters
 H atoms treated by a mixture of independent and constrained refinement
 $w = 1/[\sigma^2(F_o^2) + (0.1P)^2 + 0.801P]$
 where $P = (F_o^2 + 2F_c^2)/3$
 $(\Delta/\sigma)_{max} = 0.001$
 $\Delta\rho_{max} = 0.52 \text{ e } \text{Å}^{-3}$
 $\Delta\rho_{min} = -0.79 \text{ e } \text{Å}^{-3}$

Table 1
Selected geometric parameters (Å, °).

Co1—C11	2.3695 (12)	Co1—N2	2.147 (3)
Co1—O1	2.112 (3)	Co1—N3	2.184 (3)
Co1—N1	2.137 (4)	Co1—N4	2.122 (4)
C11—Co1—O1	89.46 (12)	O1—Co1—N4	92.47 (13)
C11—Co1—N1	94.22 (10)	N1—Co1—N2	77.65 (13)
C11—Co1—N2	94.85 (9)	N1—Co1—N3	91.92 (13)
C11—Co1—N3	172.38 (9)	N1—Co1—N4	165.97 (13)
C11—Co1—N4	97.79 (10)	N2—Co1—N3	90.87 (12)
O1—Co1—N1	94.89 (13)	N2—Co1—N4	94.07 (13)
O1—Co1—N2	171.61 (14)	N3—Co1—N4	76.74 (13)
O1—Co1—N3	85.52 (14)		

Table 2
Hydrogen-bond geometry (Å, °).

<i>D</i> —H... <i>A</i>	<i>D</i> —H	H... <i>A</i>	<i>D</i> ... <i>A</i>	<i>D</i> —H... <i>A</i>
C24—H24...Cl1	0.93	2.92	3.499 (5)	122
O1—H1A...Cl2	0.67 (4)	2.44 (5)	3.098 (4)	171 (5)
N5—H5A...Cl2	0.86	2.69	3.494 (13)	156
O1—H1B...Cl2 ⁱ	0.92 (6)	2.31 (6)	3.163 (4)	153 (5)

Symmetry code: (i) $-x + 2, -y + 1, -z + 1$.

H atoms of the water molecule were found in a difference Fourier map and refined freely. H atoms on C and N atoms were placed in calculated positions, with N—H = 0.86 Å and C—H = 0.93–0.96 Å, and with *U_{iso}*(H) = 1.2*U_{eq}*(N,C) in the riding-model approximation.

Data collection: *SMART* (Siemens, 1996); cell refinement: *SAINTE* (Siemens, 1996); data reduction: *SAINTE*; program(s) used to solve structure: *SHELXS97* (Sheldrick, 1997); program(s) used to refine structure: *SHELXL97* (Sheldrick, 1997); molecular graphics: *SHELXTL97* (Siemens, 1996); software used to prepare material for publication: *SHELXL97*.

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