Supplementary material

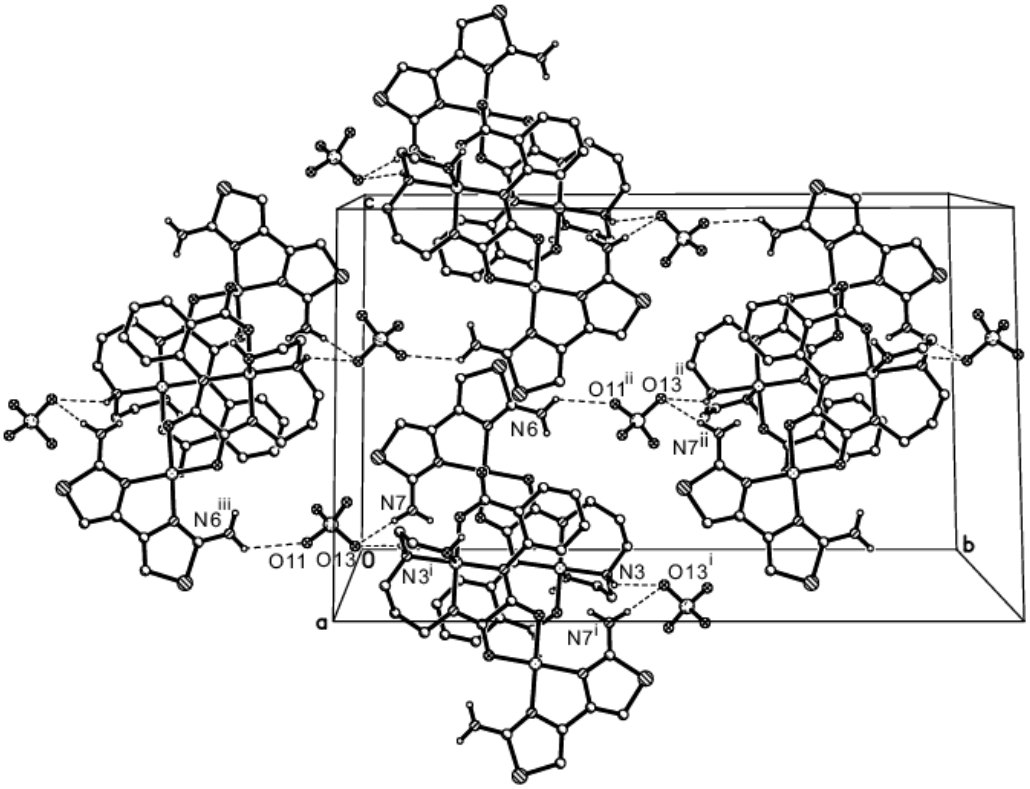

Fig. S1. A two-dimensional hydrogen-bonding structure of complex **1** parallel to b0c plane. Hydrogen bonds are shown as dotted lines and H atoms not involved in hydrogen bonding have been omitted for clarity. [Symmetry codes: (ii) 1/2-x, 1/2+y, 1/2-z; (iii) 1/2-x, -1/2+y, 1/2-z].

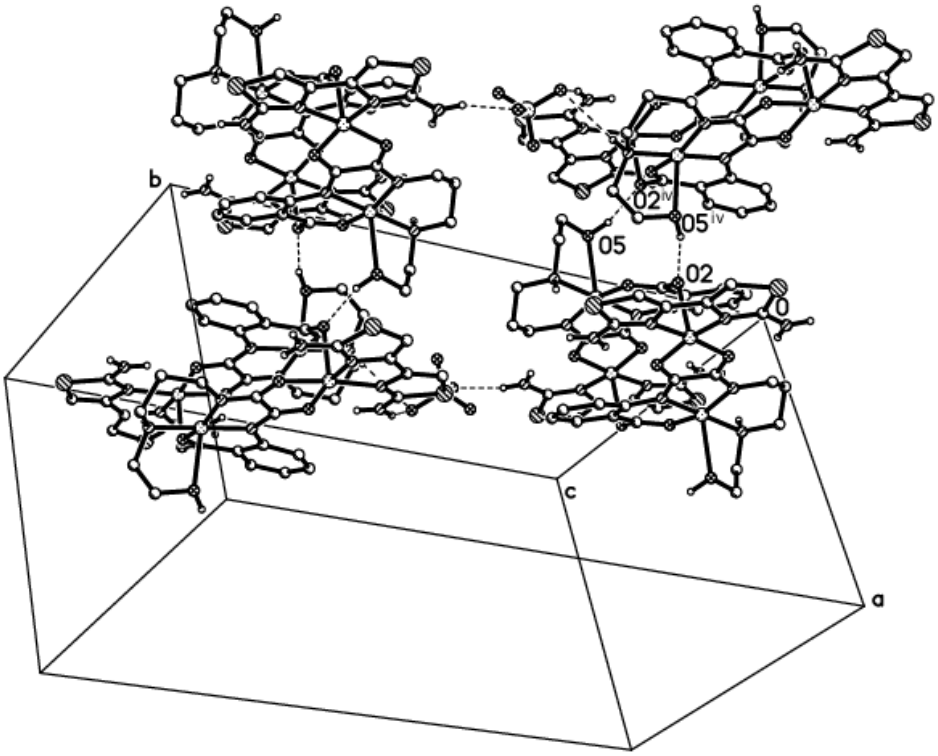

Fig. S2. The O-H···O hydrogen bonds between two layers in Fig. 2. [Symmetry code: (iv) -x, y, -1/2-z.]

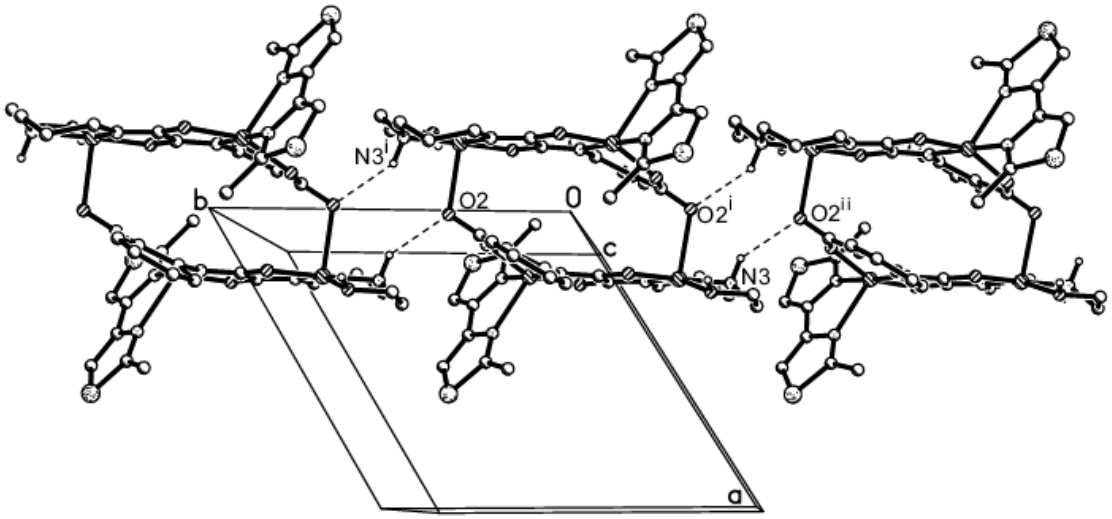

Fig. S3. A one-dimensional hydrogen-bonding structure of complex **2** parallel to the b-axis. Hydrogen bonds are shown as dotted lines. The perchlorate anions, solvent water molecules and H atoms uninvolved have been omitted for clarity [symmetry code: (ii) x, -1+y, z].

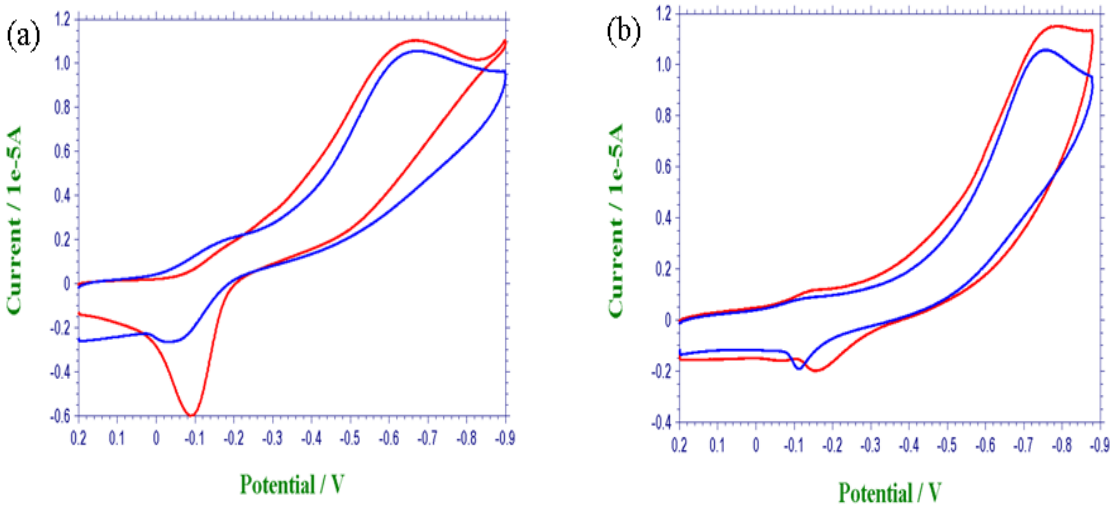

Fig. S4. Cyclic voltammograms of the two complexes in the absence (red line) and presence (blue line) of *HS*-DNA. (**a**: complex **1**; **b**: complex **2**).

Table S1. Hydrogen-bonding Geometries (Å, °).

D-H···A	*D*-H	H···A	*D*···A	*D*-H···A
Complex 1				
N6-H6A···O4	0.86	2.12	2.853(4)	143
N7-H7A···O3	0.86	2.15	2.896(4)	145
N7-H7B···O13	0.86	2.20	3.006(5)	156
N3-H3···O13^{i}	0.91	2.60	3.341(5)	140
N6-H6B···O11^{ii}	0.86	2.59	3.190(5)	127
O5-H5A···O2^{iv}	0.91	1.86	2.745(3)	162
Complex 2				
O5-H5A···O6	0.87	1.83	2.631(8)	152
O6-H6B···O1^{i}	0.93	1.97	2.881(10)	170
N3-H3···O2^{ii}	0.91	2.41	3.209(8)	146
O6-H6A···O7A^{iii}	0.89	2.00	2.830(14)	154
O6-H6A···O7B^{iii}	0.89	2.06	2.90(2)	157
C19-H19···O9A^{iv}	0.93	2.47	3.373(12)	165

Symmetry codes: complex **1**, (i) 1/2-x, 1/2-y, -z; (ii) 1/2-x, 1/2+y, 1/2-z; (iv) -x, y, -1/2-z; complex **2**, (i) -x, -y, -z; (ii) x, -1+y, z; (iii) 1-x, -y, -z; (iv) 1-x, 1-y, 1-z.

Table S2. Qualitative antibacterial assay (50 mM).

Complexes	**Diameter of inhibition zone (mm)**				
	S. aureus	*B. subtilis*	*E. coli*	*P. vulgaris*	*Ps.aeruginosa*
1	12	16	14	11	10
2	14	20	18	14	12

Table S3. Quantitative antibacterial assay (MIC value, μM).

Complexes	*S. aureus*	*B. subtilis*	*E. coli*	*P. vulgaris*	*Ps.aeruginosa*
1	145	50	60	145	180
2	80	25	50	120	140

MIC = minimum inhibitory concentration, i.e. the lowest concentration to completely inhibit microbial growth.