Supplementary Material (ESI) for Dalton Transactions

Terpyridine-Platinum(II) Acetylide Complexes Bearing Pendent Coordination Units

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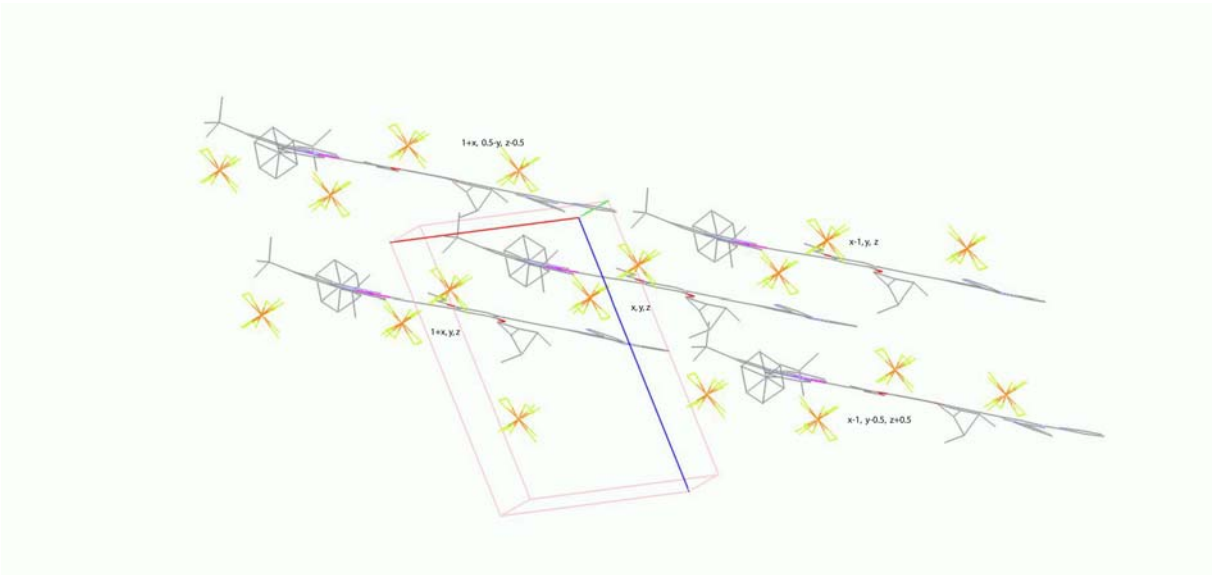
Supporting Information (3 pages)

Table S1: π-π interactions for crystal compound **7**

	Cg(I)	Cg(J)	[ARU(J)]	Cg-Cg (Å)	Dihedral angle (°)	Cg(I)_perp on ring J (Å)
Cycle Pt	**Cg(1)**	Cg(7)	1+X, 1/2-Y, -1/2+Z	3.889(3)	0.87	3.529
	Cg(2)	Cg(6)	1+X, 1/2-Y, -1/2+Z	3.614(4)	7.20	3.412
	Cg(3)	Cg(7)	1+X, 1/2-Y, -1/2+Z	3.962(4)	3.04	3.604
	Cg(4)	*Cg(9)*	1+X, Y, Z	3.872(4)	7.77	3.576
Cycle T	Cg(6)	**Cg(2)**	-1+X, 1/2-Y, 1/2+Z	3.614(4)	7.20	3.511
	Cg(7)	**Cg(1)**	-1+X, 1/2-Y, 1/2+Z	3.888(3)	0.87	3.524
	Cg(7)	**Cg(3)**	-1+X, 1/2-Y, 1/2+Z	3.962(4)	3.04	3.547
	Cg(8)	*Cg(9)*	-1+X, Y, Z	3.620(4)	3.33	3.457
Cycle B	*Cg(9)*	**Cg(4)**	-1+X, Y, Z	3.873(4)	7.77	3.647
	Cg(9)	Cg(8)	1+X, Y, Z	3.620(4)	3.33	3.505

Figure S1: packing of the crystal structure for compound **7**



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Captions for figure packing

in red, rings from the Pt moiety involved in π-π interactions
in green, central phenyl rings
in blue, rings from the t-pyridine moiety
For sake of clarity, main conformations in disorder were shown and PF6 in front of molecules in transparency.

(1) 1+X, 1/2-Y, -1/2+Z
(2) 1+X, Y, Z
(3) -1+X, 1/2-Y, 1/2+Z
(4) -1+X, Y, Z

Note: The elongation of the complex along its main dimension is slightly bent following the propeller geometry of the central phenyl ring (due to aliphatic chain di-substitution (Cn, n=4)) to let the concave space of the terpyridine moiety accommodate the (tert)butyl group of the neighbour molecule in the same plane (2+x, 1/2-y, z-1/2). (distance C53-C28 > distance C53-C38 (23.298Å vs 22.124Å and angle C53-Pt-N6 7.25° vs angle C53-Pt-N4 15.07°)