Supplementary Information

Variation of carboxylate binding mode in self-assembled Ni(II) complexes with tridentate reduced Schiff base ligand: Syntheses, structural analysis

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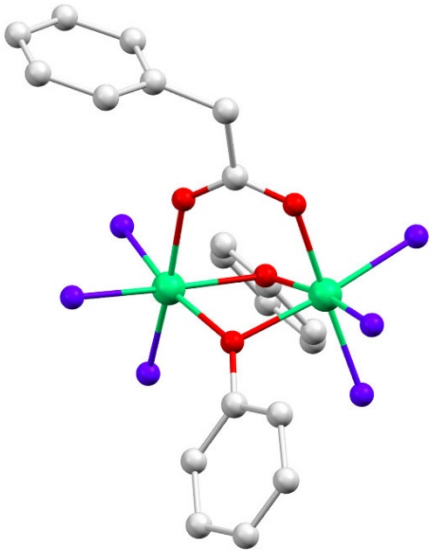

Fig. S1 Syn-Syn bridging mode of phenylacetate and diphenoxido bridged core in between Ni(II) centres in complex **1**.

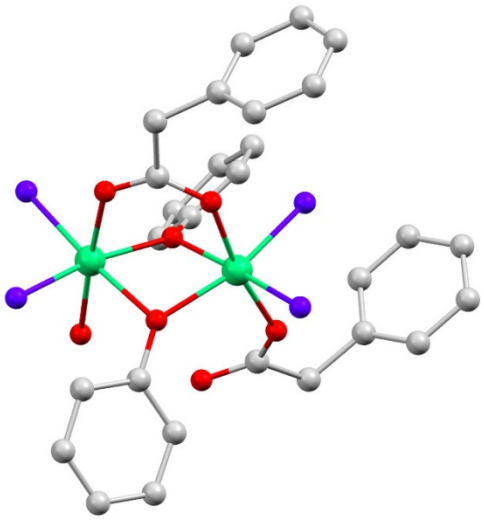

Fig. S2 Syn-Syn bridging, Syn monodentate (η^1) linkage of two phenylacetate molecules and diphenoxido bridged core in between Ni(II) centres in complex **2**.

Table S1 Molecular dimensions (distances, Å , angles, °) in **1-2**.

	Complex **1**	Complex **2**
Ni(1)–O(10)	2.0715(18)	2.079(2)
Ni(1)–O(25)	2.0620(18))	2.042(2)
Ni(1)–O(41)	2.044(2)	2.034(3)
Ni(1)–O(62)		2.130(4)
Ni(1)–N(1)	2.160(3)	
Ni(1)–N(18)	2.111(2)	2.104(3)
Ni(1)–N(22)	2.172(2)	2.205(3)
Ni(2)–O(10)	2.0791(19)	2.061(2)
Ni(2)–O(25)	2.0693(17)	2.042(2)
Ni(2)–O(40)	2.0258(19)	2.040(3)
Ni(2)–O(50)		2.039(3)
Ni(2)–N(2)	2.115(2)	
Ni(2)–N(33)	2.131(3)	2.137(4)
Ni(2)–N(37)	2.168(2)	2.200(3)
O(10)–Ni(1)–O(25)	78.74(7)	78.14(9)
O(10)–Ni(1)–O(41)	90.54(7)	91.32(10)
O(10)–Ni(1)–O(62)		86.07(12
O(10)–Ni(1)–N(1)	88.44(8)	
O(10)–Ni(1)–N(18)	91.48(9)	91.07(11)
O(10)–Ni(1)–N(22)	174.36(9)	175.09(11)
O(25)–Ni(1)–O(41)	93.29(8)	91.97(10)

O(25)–Ni(1)–O(62)		85.31(12)
O(25)–Ni(1)–N(1)	94.17(8)	
O(25)–Ni(1)–N(18)	170.15(9)	169.16(11)
O(25)–Ni(1)–N(22)	97.03(8)	97.76(10)
O(41)–Ni(1)–O(62)		176.56(13)
O(41)–Ni(1)–N(1)	172.12(9)	
O(41)–Ni(1)–N(18)	87.96(9)	89.28(13)
O(41)–Ni(1)–N(22)	85.95(8)	86.09(11)
N(1)–Ni(1)–N(18)	84.26(10)	
N(1)–Ni(1)–N(22)	95.64(9)	
O(62)–Ni(1)–N(18)		93.00(14)
O(62)–Ni(1)–N(22)		96.34(12)
N(18)–Ni(1)–N(22)	92.80(9	93.06(12)
O(10)–Ni(2)–N(2)	96.33(9)	
O(10)–Ni(2)–O(25)	78.40(7	78.53(9)
O(10)–Ni(2)–O(40)	90.13(8)	87.86(10)
O(10)–Ni(2)–O(50)		101.06(10)
O(10)–Ni(2)–N(33)	168.77(8)	166.49(12)
O(10)–Ni(2)–N(37)	97.87(8)	97.04(11)
O(25)–Ni(2)–O(40)	89.70(7)	91.53(10)
O(25)–Ni(2)–O(50)		91.48(10)
O(25)–Ni(2)–N(2)	90.06(9)	
O(25)–Ni(2)–N(33)	90.53(8)	89.21(12)
O(25)–Ni(2)–N(37)	173.87(8)	175.06(10)
O(40)–Ni(2)–O(50)	173.36(9)	170.99(11)
O(40)–Ni(2)–N(33)	87.90(9)	86.79(13)
O(40)–Ni(2)–N(37)	85.43(8)	86.10(11)
O(50)–Ni(2)–N(33)	85.46(10)	84.76(13)
O(55)–Ni(2)–N(37)	95.21(10)	91.51(11)
N(33)–Ni(2)–N(37)	93.00(9	94.97(13)