Magnetic and Structural Properties of Dinuclear Singly Bridged-Phenoxido Metal(II) Complexes

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Fig. S1. ESI-MS of complex 1 in acetonitrile
Fig. S2. ESI-MS of complex 2 in acetonitrile
Fig. S3. ESI-MS of complex 3 in acetonitrile
Fig. S4. ESI-MS of complex 4 in acetonitrile
Fig. S5. ESI-MS of complex 5 in acetonitrile
Fig. S6: Packing plot of 1.

Fig. S7: Packing plot of 2.
Fig. S8: Packing plot of 3.

Fig. S9: Packing plot of 4.
Fig. S10: Packing plot of 5.

Fig. S11. A part of the crystal structure of 1 showing the formation of a supramolecular tetramer utilizing the O-H···Cl hydrogen bonds (blues dotted lines).
Fig. S12 The magnetic data for complex 3: *Left:* the temperature dependence of the effective magnetic moment and molar magnetization measured at $B = 1$ T. *Right:* the isothermal magnetizations measured at $T = 2$, 5 and 10 K. Open circles represent the experimental data and solid lines represent the best fit using equation 1, with $J = -30.2$ cm$^{-1}$, $D = 0$ cm$^{-1}$ (fixed), $g = 2.24$, $\chi_{\text{TIP}} = 3.4 \times 10^{-9}$ m$^3$mol$^{-1}$, $x_{\text{Pt}} = 0.37\%$. 
Table S1. Selected bond distances (Å) and angles (°) for 1.

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<td>O(1)-Zn(2)-Cl(3)</td>
<td>103.86(3)</td>
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<td>N(5)-Zn(2)-Cl(3)</td>
<td>97.63(4)</td>
<td></td>
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<tr>
<td>Zn(2)-O(1)-Zn(1)</td>
<td>135.18(6)</td>
<td></td>
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