

SUPPLEMENTARY MATERIALS

Magnetostructural Properties of Some Doubly-Bridged Phenoxido Copper(II) Complexes

Salah S. Massoud ^{1,2,*}, Febee R. Louka ¹, Madison T. Dial ¹, Nahed N. M. H. Salem ²,
Roland C. Fischer ³, Ana Torvisco ³, Franz A. Mautner ⁴, Kai Nakashima ⁵,
Makoto Handa ⁵ and Masahiro Mikuriya ^{6,*}

¹ Department of Chemistry, University of Louisiana at Lafayette, P.O. Box 43700, Lafayette, LA 70504, USA

² Department of Chemistry, Faculty of Science, Alexandria University, Moharam Bey, 21511 Alexandria, Egypt

³ Institut für Anorganische Chemische Technische Universität Graz, Stremayrgasse 9/V, A-8010 Graz, Austria

⁴ Institut für Physikalische and Theoretische Chemie, Technische Universität Graz, Stremayrgasse 9/II, A-8010, Graz, Austria

⁵ Department of Chemistry, Interdisciplinary Graduate School of Science and Engineering, Shimane University, 1060 Nishikawatsu, Matsue 690-8504 Japan

⁶ Department of Applied Chemistry for Environment, School of Biological and Environmental Sciences, Kwansei Gakuin University, 1 Gakuen Uegahara, Sanda 669-1330 Japan

<u>Contents</u>	<u>page #</u>
Figure S1. Packing view of 3	S2
Figure S2. Packing view of 4	S2
Figure S3. Packing view of 9	S3
Table S1. Crystallographic data and processing parameters of 3 , 4 and 9	S4
Figure S4. Temperature dependence of magnetic susceptibility and magnetic moment of 2	S5

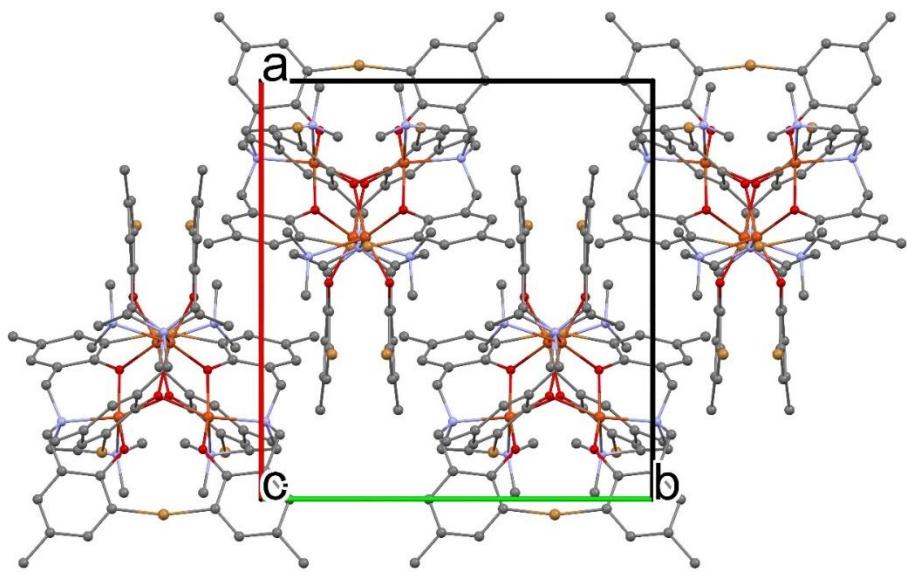


Figure S1. Packing view of 3

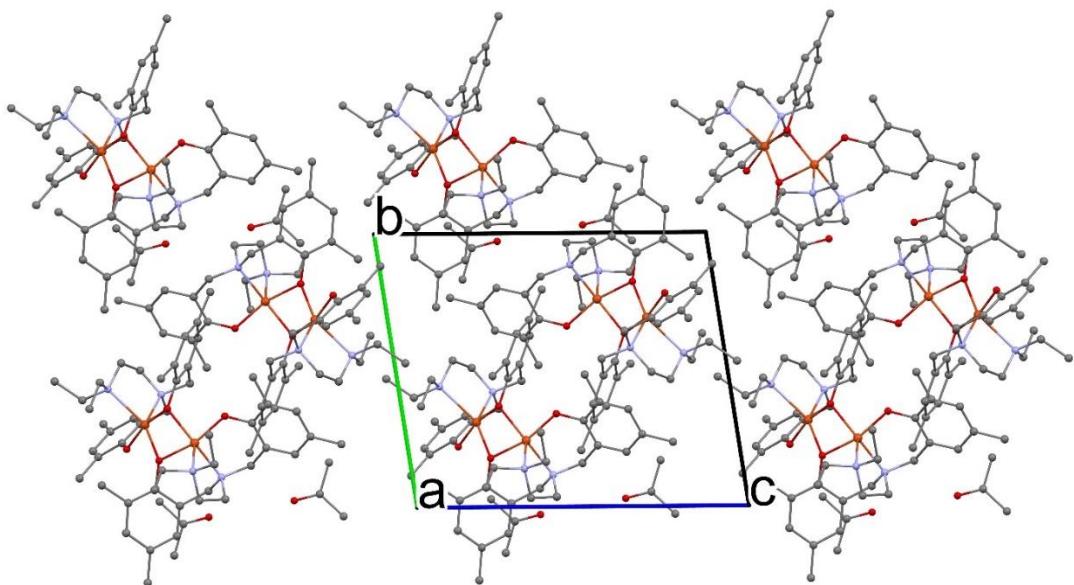


Figure S2. Packing view of 4

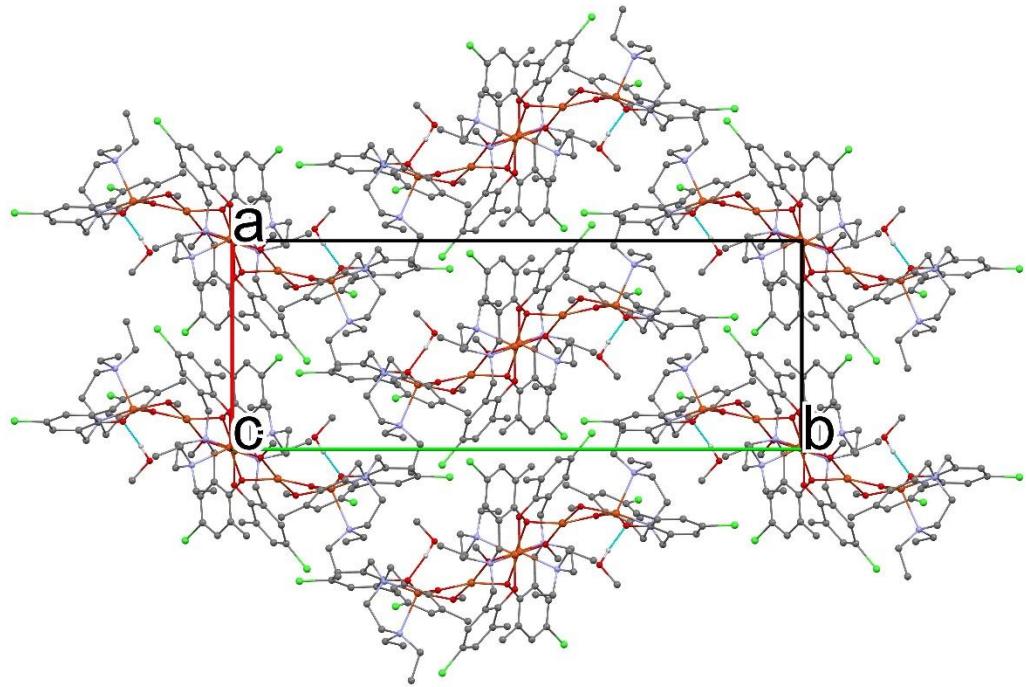


Figure S3. Packing view of **9**

Table S1. Crystallographic data and processing parameters of **3**, **4** and **9**.

Compound	3	4	9
Empirical formula	C ₄₀ H ₄₈ Br ₄ Cu ₂ N ₄ O ₄	C ₅₁ H ₇₄ Cu ₂ N ₄ O ₅	C ₄₇ H ₆₂ Cl ₄ Cu ₃ N ₄ O ₇
Formula mass	1095.53	950.22	1131.45
System	Monoclinic	Triclinic	Monoclinic
Space group	P2 ₁ /c	P-1	P2 ₁ /n
a (Å)	15.433(3)	12.6538(12)	10.7647(5)
b (Å)	14.198(3)	13.0192(12)	29.4374(14)
c (Å)	20.973(4)	15.4646(15)	16.5922(8)
α (°)	90	95.347(5)	90
β (°)	100.460(7)	101.633(5)	90.673(2)
γ (°)	90	103.880(4)	90
V (Å ³)	4519.2(16)	2395.5(4)	5275.5(4)
Z	4	2	4
θ max (°)	26.000	30.558	24.999
Data collected	82442	133738	159804
Unique refl.	8840	14144	9251
Parameters	495	573	600
Goodness-of-Fit on F ²	1.069	1.057	1.109
R1 / wR2 (all data)	0.1102 / 0.2845	0.0528 / 0.1336	0.0357 / 0.0923

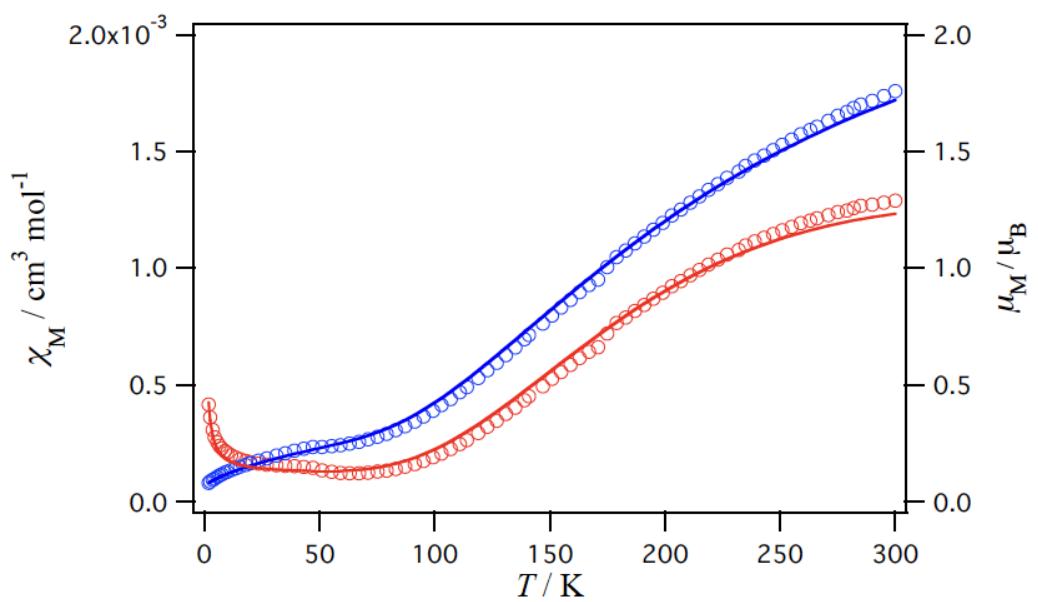


Figure S4. Temperature dependence of magnetic susceptibility χ_M (○) and magnetic moment μ_{eff} (○) of **2**.
