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Supporting Information

Facile assembly of 1D multinuclear Ag_n ($n = 11, 11, 12$) alkynyl chains with $\text{CF}_3\text{COO}^-/\text{CH}_3\text{COO}^-$ as auxiliary ligand

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1. Synthetic procedures

In order to understand and confirm what role the three POMs play in constructing compounds **1–3**, comparative experiments were performed in the absence of POMs as shown in Table S1 below.

$[\text{Ag}_{11}(\text{C}\equiv\text{C}'\text{Bu})_6(\text{CF}_3\text{COO})_5(\text{CH}_3\text{OH})]_n$ (**1**)

5 $[\text{AgC}\equiv\text{C}'\text{Bu}]_n$ (0.0759 g, 0.4016 mmol) was dissolved in methanol (10 mL) under stir. Then CF_3COOH (0.2 mL, 0.0027 mmol) was added under stir to form a colorless solution. After stir for 10 h, the solution (pH $\approx$ 1.0) evaporated slowly at room temperature in an Erlenmeyer flask. A few weeks later, we have achieved compound **1**. They were deposited as colorless block crystals. Yield: *ca.* 15% (based on Ag).

$[\text{Ag}_{11}(\text{C}\equiv\text{C}'\text{Bu})_7(\text{CH}_3\text{COO})_4]_n$ (**2**)

10 **Method 1:** $[\text{AgC}\equiv\text{C}'\text{Bu}]_n$ (0.0588 g, 0.3111 mmol), $\text{Ni}(\text{CH}_3\text{COO})_2\cdot 4\text{H}_2\text{O}$ (0.0175 g, 0.0703 mmol), $\text{NaClO}_4\cdot\text{H}_2\text{O}$ (0.0083 g, 0.0591 mmol) and AgBF_4 (0.0173 g, 0.0889 mmol) were in turn added into ethanol-acetonitrile-dimethylformamide ($v : v : v = 1 : 1 : 1$) (15 mL) under ultrasonication. The mixture was stirred for 28 h to give a colorless solution (pH $\approx$ 8.0). The solution evaporated slowly at room temperature in an Erlenmeyer flask. A few days later, we have successfully achieved compound **2**. They were deposited
15 as colorless block crystals. Yield: *ca.* 27% (based on Ag).

$[\text{Ag}_{12}(\text{C}\equiv\text{C}'\text{Bu})_7(\text{CF}_3\text{COO})_5\cdot\text{H}_2\text{O}]_n$ (**3**)

$[\text{AgC}\equiv\text{C}'\text{Bu}]_n$ (0.0565 g, 0.2989 mmol) was dissolved in a solution of CF_3COOAg (0.1099 g, 0.4975 mmol) in methanol (10 mL) under ultrasonication. Then H_2O (2 mL) was added to the above resulting solution. The mixture was stirred for 3 h to give a white suspension. The reaction mixture was transferred to a
20 Teflon-lined stainless autoclave (25 mL) and kept at 85 °C for 22 h. After cooling to room temperature, the solution (pH $\approx$ 3.7) was filtered and the filtrate evaporated slowly at room temperature in an Erlenmeyer flask. A few days later, we have successfully achieved compound **3**. They were deposited as colorless rectangle crystals. Yield: *ca.* 23% (based on Ag).

Table S1 Synthesis methods contrasted

	Compound 1	Compound 2	Compound 3
with $[\text{Mn}_{12}(\text{CH}_3\text{COO})_{16}(\text{H}_2\text{O})_4\text{O}_{12}]\cdot 2\text{CH}_3\text{COOH}\cdot 4\text{H}_2\text{O}$ in reaction system	pH $\approx$ 1.2		
without $[\text{Mn}_{12}(\text{CH}_3\text{COO})_{16}(\text{H}_2\text{O})_4\text{O}_{12}]\cdot 2\text{CH}_3\text{COOH}\cdot 4\text{H}_2\text{O}$ in reaction system	pH $\approx$ 1.0		
with $(\text{NH}_4)_3[\text{CrMo}_6\text{H}_6\text{O}_{24}]\cdot 7\text{H}_2\text{O}$ in reaction system		pH $\approx$ 7.4	
without $(\text{NH}_4)_3[\text{CrMo}_6\text{H}_6\text{O}_{24}]\cdot 7\text{H}_2\text{O}$ in reaction system		pH $\approx$ 8.0	
with $\alpha\text{-K}_6\text{P}_2\text{W}_{18}\text{O}_{62}\cdot 14\text{H}_2\text{O}$ in reaction system			pH $\approx$ 4.7
without $\alpha\text{-K}_6\text{P}_2\text{W}_{18}\text{O}_{62}\cdot 14\text{H}_2\text{O}$ in reaction system			pH $\approx$ 3.7

2. Crystallographic studies

Crystal data for **1**: C₄₇H₅₈F₁₅O₁₁Ag₁₁; triclinic, space group *P*-1, *M* = 2266.47, *a* = 14.551(4) Å, *b* = 14.805(4) Å, *c* = 18.520(7) Å, α = 110.957(4)°, β = 92.602(4)°, γ = 117.093(3)°, *V* = 3211.2(17) Å³, *Z* = 2, 15742 reflns measured, 11016 unique reflections (*R*_{int} = 0.0573), *R*₁ = 0.0781, 5 *wR*₂ = 0.1667, goodness-of-fit = 0.950 for 4624 observed reflections with *I* > 2σ(*I*). CCDC-926484 (**1**) contains the supplementary crystallographic data for this paper. These data can be obtained free of charge from the Cambridge Crystallographic Data Centre via www.ccdc.cam.ac.uk/data_request/cif for **1**.

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Crystal data for **2**: C₅₀H₇₅O₈Ag₁₁; triclinic, space group *P*-1, *M* = 1990.67, *a* = 13.983(5) Å, *b* = 14.005(5) Å, *c* = 18.653(5) Å, α = 99.434(5)°, β = 99.090(5)°, γ = 116.326(5)°, *V* = 3117.9(18) Å³, *Z* = 2, 15420 reflns measured, 10520 unique reflections (*R*_{int} = 0.0523), *R*₁ = 0.0639, *wR*₂ = 15 0.1314, goodness-of-fit = 0.993 for 5005 observed reflections with *I* > 2σ(*I*). CCDC-926485 (**2**) contains the supplementary crystallographic data for this paper. These data can be obtained free of charge from the Cambridge Crystallographic Data Centre via www.ccdc.cam.ac.uk/data_request/cif for **2**.

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Crystal data for **3**: C₅₂H₆₅F₁₅O₁₁Ag₁₂; monoclinic, space group *P*2₁, *M* = 2445.48, *a* = 11.490(5) Å, *b* = 23.129(5) Å, *c* = 14.609(5) Å, α = 90.000(5)°, β = 106.035(5)°, γ = 90.000(5)°, *V* = 3731(2) Å³, *Z* = 2, 18864 reflns measured, 9684 unique reflections (*R*_{int} = 0.0385), *R*₁ = 0.0607, *wR*₂ = 25 0.1453, goodness-of-fit = 1.036 for 6599 observed reflections with *I* > 2σ(*I*). CCDC-926482 (**3**) contains the supplementary crystallographic data for this paper. These data can be obtained free of charge from the Cambridge Crystallographic Data Centre via www.ccdc.cam.ac.uk/data_request/cif for **3**.

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3. Selected bond lengths (Å) and bond angles (°) for compounds 1–3

Table S2 Selected bond lengths (Å) and bond angles (°) for compound **1**

5	Ag(1)-C(29)	2.072(16)	60	Ag(10)-C(23)	2.33(2)
	Ag(1)-C(35)	2.14(2)		Ag(10)-O(10) ^{#2}	2.364(17)
	Ag(1)-Ag(6)	2.885(2)		Ag(10)-C(17)	2.369(17)
	Ag(1)-Ag(5)	2.893(2)		Ag(10)-O(8) ^{#2}	2.490(13)
	Ag(1)-Ag(9)	2.986(2)		Ag(10)-C(24)	2.67(2)
10	Ag(1)-Ag(9) ^{#1}	3.074(2)	65	Ag(10)-C(18)	2.707(15)
	Ag(1)-Ag(8)	3.175(2)		Ag(10)-Ag(3) ^{#2}	3.065(2)
	Ag(2)-C(23)	2.07(2)		Ag(10)-Ag(11) ^{#2}	3.119(5)
	Ag(2)-C(11)	2.085(16)		Ag(11)-O(6) ^{#2}	2.274(15)
	Ag(2)-Ag(11)	2.850(4)		Ag(11)-C(11)	2.317(19)
15	Ag(2)-Ag(11)	2.874(4)	70	Ag(11)-C(23) ^{#2}	2.69(2)
	Ag(2)-Ag(11) ^{#2}	3.083(4)		Ag(11)-Ag(7) ^{#2}	2.862(4)
	Ag(2)-Ag(10)	3.084(2)		Ag(11)-Ag(3) ^{#2}	3.170(4)
	Ag(2)-Ag(4)	3.129(2)		Ag(11)-Ag(2) ^{#2}	3.268(5)
	Ag(2)-Ag(7)	3.170(2)		Ag(11)-C(11)	2.115(19)
20	Ag(2)-Ag(11) ^{#2}	3.268(5)	75	Ag(11)-C(23) ^{#2}	2.12(2)
	Ag(3)-C(17) ^{#2}	2.063(15)		Ag(11)-O(6) ^{#2}	2.513(16)
	Ag(3)-C(41)	2.124(19)		Ag(11)-Ag(2) ^{#2}	3.083(4)
	Ag(3)-Ag(8)	2.849(2)		Ag(11)-Ag(10) ^{#2}	3.119(5)
	Ag(3)-Ag(7)	2.879(2)		Ag(11)-Ag(7) ^{#2}	3.122(5)
25	Ag(3)-Ag(4)	3.058(2)	80	C(17)-Ag(3) ^{#2}	2.063(15)
	Ag(3)-Ag(10) ^{#2}	3.065(2)		C(17)-Ag(8) ^{#2}	2.364(17)
	Ag(3)-Ag(6)	3.082(2)		C(23)-Ag(11) ^{#2}	2.12(2)
	Ag(3)-Ag(11) ^{#2}	3.170(4)		C(23)-Ag(11) ^{#2}	2.69(2)
	Ag(3)-Ag(5)	3.368(2)		C(29)-Ag(9) ^{#1}	2.245(19)
30	Ag(4)-O(3)	2.255(15)	85	C(30)-Ag(9) ^{#1}	2.555(18)
	Ag(4)-C(11)	2.285(18)		O(6)-Ag(11) ^{#2}	2.274(15)
	Ag(4)-C(41)	2.382(17)		O(6)-Ag(11) ^{#2}	2.513(16)
	Ag(4)-C(12)	2.423(19)		O(8)-Ag(10) ^{#2}	2.490(13)
	Ag(4)-O(8)	2.561(13)		O(10)-Ag(10) ^{#2}	2.364(17)
35	Ag(4)-C(42)	2.689(17)	90	C(29)-Ag(1)-Ag(6)	50.2(5)
	Ag(5)-C(35)	2.17(2)		C(35)-Ag(1)-Ag(6)	137.7(5)
	Ag(5)-O(9)	2.212(13)		C(29)-Ag(1)-Ag(5)	131.0(5)
	Ag(5)-Ag(8)	2.983(2)		C(35)-Ag(1)-Ag(5)	48.3(5)
	Ag(5)-Ag(9)	3.157(3)		Ag(6)-Ag(1)-Ag(5)	94.26(7)
40	Ag(6)-C(29)	2.230(18)	95	C(29)-Ag(1)-Ag(9)	118.2(5)
	Ag(6)-O(4)	2.285(14)		C(35)-Ag(1)-Ag(9)	49.6(5)
	Ag(6)-C(41)	2.291(17)		Ag(6)-Ag(1)-Ag(9)	140.34(7)
	Ag(7)-O(1)	2.250(13)		Ag(5)-Ag(1)-Ag(9)	64.94(6)
	Ag(7)-C(23)	2.41(2)		C(29)-Ag(1)-Ag(9) ^{#1}	46.9(5)
45	Ag(7)-C(41)	2.441(17)	100	C(35)-Ag(1)-Ag(9) ^{#1}	121.2(5)
	Ag(7)-C(24)	2.70(2)		Ag(6)-Ag(1)-Ag(9) ^{#1}	82.66(6)
	Ag(7)-Ag(11) ^{#2}	2.862(4)		Ag(5)-Ag(1)-Ag(9) ^{#1}	105.06(7)
	Ag(7)-Ag(11) ^{#2}	3.122(5)		Ag(9)-Ag(1)-Ag(9) ^{#1}	71.93(7)
	Ag(8)-O(5)	2.250(14)		C(29)-Ag(1)-Ag(8)	141.5(5)
50	Ag(8)-C(17) ^{#2}	2.364(17)	105	C(35)-Ag(1)-Ag(8)	50.5(5)
	Ag(8)-O(2)	2.438(14)		Ag(6)-Ag(1)-Ag(8)	96.45(6)
	Ag(8)-C(35)	2.453(19)		Ag(5)-Ag(1)-Ag(8)	58.68(6)
	Ag(9)-C(29) ^{#1}	2.245(19)		Ag(9)-Ag(1)-Ag(8)	99.74(7)
	Ag(9)-C(35)	2.284(19)		Ag(9) ^{#1} -Ag(1)-Ag(8)	163.68(7)
55	Ag(9)-C(30) ^{#1}	2.555(18)	110	C(23)-Ag(2)-Ag(11)	130.7(6)
	Ag(9)-O(11)	2.561(15)		C(11)-Ag(2)-Ag(11)	53.3(5)
	Ag(9)-C(36)	2.679(19)		C(23)-Ag(2)-Ag(11)	141.0(6)
	Ag(9)-Ag(1) ^{#1}	3.074(2)		C(11)-Ag(2)-Ag(11)	47.3(5)

5	Ag(11)-Ag(2)-Ag(11)	20.82(9)	60	C(17) ^{#2} -Ag(3)-Ag(5)	57.0(5)
	C(23)-Ag(2)-Ag(11) ^{#2}	43.3(6)		C(41)-Ag(3)-Ag(5)	129.3(5)
	C(11)-Ag(2)-Ag(11) ^{#2}	147.6(5)		Ag(8)-Ag(3)-Ag(5)	56.61(5)
	Ag(11)-Ag(2)-Ag(11) ^{#2}	102.38(12)		Ag(7)-Ag(3)-Ag(5)	133.93(7)
	Ag(11)-Ag(2)-Ag(11) ^{#2}	101.93(11)		Ag(4)-Ag(3)-Ag(5)	126.92(6)
10	C(23)-Ag(2)-Ag(10)	49.1(6)	65	Ag(10) ^{#2} -Ag(3)-Ag(5)	77.47(6)
	C(11)-Ag(2)-Ag(10)	127.6(5)		Ag(6)-Ag(3)-Ag(5)	81.95(6)
	Ag(11)-Ag(2)-Ag(10)	85.74(10)		Ag(11) ^{#2} -Ag(3)-Ag(5)	111.75(10)
	Ag(11)-Ag(2)-Ag(10)	103.72(11)		O(3)-Ag(4)-Ag(3)	120.4(4)
	Ag(11) ^{#2} -Ag(2)-Ag(10)	60.77(10)		C(11)-Ag(4)-Ag(3)	99.8(4)
15	C(23)-Ag(2)-Ag(4)	133.8(6)	70	C(41)-Ag(4)-Ag(3)	43.8(5)
	C(11)-Ag(2)-Ag(4)	46.9(5)		C(12)-Ag(4)-Ag(3)	127.1(4)
	Ag(11)-Ag(2)-Ag(4)	94.50(10)		O(8)-Ag(4)-Ag(3)	60.2(3)
	Ag(11)-Ag(2)-Ag(4)	78.84(10)		C(42)-Ag(4)-Ag(3)	70.2(4)
	Ag(11) ^{#2} -Ag(2)-Ag(4)	129.59(11)		O(3)-Ag(4)-Ag(2)	167.6(5)
20	Ag(10)-Ag(2)-Ag(4)	169.01(7)	75	C(11)-Ag(4)-Ag(2)	41.8(4)
	C(23)-Ag(2)-Ag(7)	49.4(6)		C(41)-Ag(4)-Ag(2)	74.7(4)
	C(11)-Ag(2)-Ag(7)	132.9(5)		C(12)-Ag(4)-Ag(2)	72.5(4)
	Ag(11)-Ag(2)-Ag(7)	154.99(12)		O(8)-Ag(4)-Ag(2)	101.1(3)
	Ag(11)-Ag(2)-Ag(7)	138.48(11)		C(42)-Ag(4)-Ag(2)	79.6(3)
25	Ag(11) ^{#2} -Ag(2)-Ag(7)	59.89(9)	80	Ag(3)-Ag(4)-Ag(2)	67.81(5)
	Ag(10)-Ag(2)-Ag(7)	98.38(6)		C(35)-Ag(5)-Ag(1)	47.4(5)
	Ag(4)-Ag(2)-Ag(7)	86.05(6)		O(9)-Ag(5)-Ag(1)	144.5(4)
	C(23)-Ag(2)-Ag(11) ^{#2}	55.1(6)		C(35)-Ag(5)-Ag(8)	54.1(5)
	C(11)-Ag(2)-Ag(11) ^{#2}	136.1(6)		O(9)-Ag(5)-Ag(8)	149.5(4)
30	Ag(11)-Ag(2)-Ag(11) ^{#2}	104.62(11)	85	Ag(1)-Ag(5)-Ag(8)	65.39(6)
	Ag(11)-Ag(2)-Ag(11) ^{#2}	97.51(11)		C(35)-Ag(5)-Ag(9)	46.4(5)
	Ag(11) ^{#2} -Ag(2)-Ag(11) ^{#2}	18.46(8)		O(9)-Ag(5)-Ag(9)	103.5(4)
	Ag(10)-Ag(2)-Ag(11) ^{#2}	79.20(9)		Ag(1)-Ag(5)-Ag(9)	58.95(5)
	Ag(4)-Ag(2)-Ag(11) ^{#2}	111.26(10)		Ag(8)-Ag(5)-Ag(9)	100.21(6)
35	Ag(7)-Ag(2)-Ag(11) ^{#2}	52.76(8)	90	C(35)-Ag(5)-Ag(3)	99.7(5)
	C(17) ^{#2} -Ag(3)-Ag(8)	54.8(5)		O(9)-Ag(5)-Ag(3)	117.1(4)
	C(41)-Ag(3)-Ag(8)	116.1(5)		Ag(1)-Ag(5)-Ag(3)	75.32(6)
	C(17) ^{#2} -Ag(3)-Ag(7)	110.4(5)		Ag(8)-Ag(5)-Ag(3)	52.87(5)
	C(41)-Ag(3)-Ag(7)	56.0(5)		Ag(9)-Ag(5)-Ag(3)	134.08(7)
40	Ag(8)-Ag(3)-Ag(7)	79.57(6)	95	C(29)-Ag(6)-Ag(1)	45.6(4)
	C(17) ^{#2} -Ag(3)-Ag(4)	138.5(5)		O(4)-Ag(6)-Ag(1)	137.8(4)
	C(41)-Ag(3)-Ag(4)	50.9(5)		C(41)-Ag(6)-Ag(1)	110.7(4)
	Ag(8)-Ag(3)-Ag(4)	166.75(7)		C(29)-Ag(6)-Ag(3)	125.5(4)
	Ag(7)-Ag(3)-Ag(4)	92.73(6)		O(4)-Ag(6)-Ag(3)	124.1(4)
45	C(17) ^{#2} -Ag(3)-Ag(10) ^{#2}	50.5(5)	100	C(41)-Ag(6)-Ag(3)	43.5(5)
	C(41)-Ag(3)-Ag(10) ^{#2}	138.7(5)		Ag(1)-Ag(6)-Ag(3)	80.13(6)
	Ag(8)-Ag(3)-Ag(10) ^{#2}	104.85(7)		O(1)-Ag(7)-Ag(11) ^{#2}	129.9(4)
	Ag(7)-Ag(3)-Ag(10) ^{#2}	132.34(7)		C(23)-Ag(7)-Ag(11) ^{#2}	60.7(5)
	Ag(4)-Ag(3)-Ag(10) ^{#2}	88.32(6)		C(41)-Ag(7)-Ag(11) ^{#2}	110.0(5)
50	C(17) ^{#2} -Ag(3)-Ag(6)	138.5(5)	105	C(24)-Ag(7)-Ag(11) ^{#2}	74.1(5)
	C(41)-Ag(3)-Ag(6)	48.0(5)		O(1)-Ag(7)-Ag(3)	112.3(4)
	Ag(8)-Ag(3)-Ag(6)	99.35(7)		C(23)-Ag(7)-Ag(3)	104.0(5)
	Ag(7)-Ag(3)-Ag(6)	92.87(6)		C(41)-Ag(7)-Ag(3)	46.1(4)
	Ag(4)-Ag(3)-Ag(6)	70.06(5)		C(24)-Ag(7)-Ag(3)	129.8(5)
55	Ag(10) ^{#2} -Ag(3)-Ag(6)	131.41(7)	110	Ag(11) ^{#2} -Ag(7)-Ag(3)	67.04(10)
	C(17) ^{#2} -Ag(3)-Ag(11) ^{#2}	59.3(5)		O(1)-Ag(7)-Ag(11) ^{#2}	136.3(4)
	C(41)-Ag(3)-Ag(11) ^{#2}	108.9(5)		C(23)-Ag(7)-Ag(11) ^{#2}	42.7(5)
	Ag(8)-Ag(3)-Ag(11) ^{#2}	68.61(9)		C(41)-Ag(7)-Ag(11) ^{#2}	119.9(4)
	Ag(7)-Ag(3)-Ag(11) ^{#2}	56.23(9)		C(24)-Ag(7)-Ag(11) ^{#2}	54.9(5)
	Ag(4)-Ag(3)-Ag(11) ^{#2}	115.97(10)	115	Ag(11) ^{#2} -Ag(7)-Ag(11) ^{#2}	19.29(10)
	Ag(10) ^{#2} -Ag(3)-Ag(11) ^{#2}	80.77(9)		Ag(3)-Ag(7)-Ag(11) ^{#2}	82.60(10)
	Ag(6)-Ag(3)-Ag(11) ^{#2}	147.76(9)		O(1)-Ag(7)-Ag(2)	164.6(4)

5	C(23)-Ag(7)-Ag(2)	40.8(5)	50	O(8) ^{#2} -Ag(10)-Ag(2)	133.4(3)
	C(41)-Ag(7)-Ag(2)	73.2(4)		C(24)-Ag(10)-Ag(2)	67.9(4)
	C(24)-Ag(7)-Ag(2)	66.1(4)		C(18)-Ag(10)-Ag(2)	77.8(3)
	Ag(11) ^{#2} -Ag(7)-Ag(2)	65.38(10)		Ag(3) ^{#2} -Ag(10)-Ag(2)	93.38(7)
	Ag(3)-Ag(7)-Ag(2)	69.39(6)		C(23)-Ag(10)-Ag(11) ^{#2}	42.9(5)
10	Ag(11) ^{#2} -Ag(7)-Ag(2)	58.67(8)	55	O(10) ^{#2} -Ag(10)-Ag(11) ^{#2}	140.7(4)
	O(5)-Ag(8)-Ag(3)	130.7(4)		C(17)-Ag(10)-Ag(11) ^{#2}	118.5(4)
	C(17) ^{#2} -Ag(8)-Ag(3)	45.5(4)		O(8) ^{#2} -Ag(10)-Ag(11) ^{#2}	81.9(3)
	O(2)-Ag(8)-Ag(3)	87.4(4)		C(24)-Ag(10)-Ag(11) ^{#2}	55.2(5)
	C(35)-Ag(8)-Ag(3)	108.3(5)		C(18)-Ag(10)-Ag(11) ^{#2}	133.1(3)
15	O(5)-Ag(8)-Ag(5)	153.9(5)	60	Ag(3) ^{#2} -Ag(10)-Ag(11) ^{#2}	92.24(9)
	C(17) ^{#2} -Ag(8)-Ag(5)	62.8(4)		Ag(2)-Ag(10)-Ag(11) ^{#2}	59.61(9)
	O(2)-Ag(8)-Ag(5)	108.7(3)		O(6) ^{#2} -Ag(11)-Ag(2)	160.1(4)
	C(35)-Ag(8)-Ag(5)	45.8(5)		C(11)-Ag(11)-Ag(2)	46.2(4)
	Ag(3)-Ag(8)-Ag(5)	70.52(6)		C(23) ^{#2} -Ag(11)-Ag(2)	101.3(5)
20	O(5)-Ag(8)-Ag(1)	134.2(4)	65	O(6) ^{#2} -Ag(11)-Ag(7) ^{#2}	62.6(4)
	C(17) ^{#2} -Ag(8)-Ag(1)	107.4(4)		C(11)-Ag(11)-Ag(7) ^{#2}	160.5(5)
	O(2)-Ag(8)-Ag(1)	53.6(3)		C(23) ^{#2} -Ag(11)-Ag(7) ^{#2}	51.3(4)
	C(35)-Ag(8)-Ag(1)	42.3(5)		Ag(2)-Ag(11)-Ag(7) ^{#2}	135.69(15)
	Ag(3)-Ag(8)-Ag(1)	79.10(6)		O(6) ^{#2} -Ag(11)-Ag(3) ^{#2}	102.7(4)
25	Ag(5)-Ag(8)-Ag(1)	55.93(5)	70	C(11)-Ag(11)-Ag(3) ^{#2}	138.4(5)
	C(29) ^{#1} -Ag(9)-Ag(1)	149.4(4)		C(23) ^{#2} -Ag(11)-Ag(3) ^{#2}	90.5(4)
	C(35)-Ag(9)-Ag(1)	45.6(5)		Ag(2)-Ag(11)-Ag(3) ^{#2}	95.85(12)
	C(30) ^{#1} -Ag(9)-Ag(1)	161.8(4)		Ag(7) ^{#2} -Ag(11)-Ag(3) ^{#2}	56.74(8)
	O(11)-Ag(9)-Ag(1)	74.3(3)		O(6) ^{#2} -Ag(11)-Ag(2) ^{#2}	119.0(5)
30	C(36)-Ag(9)-Ag(1)	64.9(4)	75	C(11)-Ag(11)-Ag(2) ^{#2}	109.8(5)
	C(29) ^{#1} -Ag(9)-Ag(1) ^{#1}	42.4(4)		C(23) ^{#2} -Ag(11)-Ag(2) ^{#2}	39.2(5)
	C(35)-Ag(9)-Ag(1) ^{#1}	152.9(5)		Ag(2)-Ag(11)-Ag(2) ^{#2}	75.38(11)
	C(30) ^{#1} -Ag(9)-Ag(1) ^{#1}	71.4(4)		Ag(7) ^{#2} -Ag(11)-Ag(2) ^{#2}	61.86(9)
	O(11)-Ag(9)-Ag(1) ^{#1}	74.2(3)		Ag(3) ^{#2} -Ag(11)-Ag(2) ^{#2}	64.81(8)
35	C(36)-Ag(9)-Ag(1) ^{#1}	164.4(4)	80	C(11)-Ag(11)-Ag(2)	46.4(4)
	Ag(1)-Ag(9)-Ag(1) ^{#1}	108.07(7)		C(23) ^{#2} -Ag(11)-Ag(2)	117.3(6)
	C(29) ^{#1} -Ag(9)-Ag(5)	125.8(5)		O(6) ^{#2} -Ag(11)-Ag(2)	139.1(4)
	C(35)-Ag(9)-Ag(5)	43.4(5)		C(11)-Ag(11)-Ag(2) ^{#2}	123.5(5)
	C(30) ^{#1} -Ag(9)-Ag(5)	108.0(4)		C(23) ^{#2} -Ag(11)-Ag(2) ^{#2}	42.1(6)
40	O(11)-Ag(9)-Ag(5)	130.2(3)	85	O(6) ^{#2} -Ag(11)-Ag(2) ^{#2}	117.8(4)
	C(36)-Ag(9)-Ag(5)	66.8(4)		Ag(2)-Ag(11)-Ag(2) ^{#2}	78.07(11)
	Ag(1)-Ag(9)-Ag(5)	56.11(5)		C(11)-Ag(11)-Ag(10) ^{#2}	105.6(5)
	Ag(1) ^{#1} -Ag(9)-Ag(5)	122.10(8)		C(23) ^{#2} -Ag(11)-Ag(10) ^{#2}	48.3(5)
	C(23)-Ag(10)-Ag(3) ^{#2}	125.1(6)		O(6) ^{#2} -Ag(11)-Ag(10) ^{#2}	129.2(4)
45	O(10) ^{#2} -Ag(10)-Ag(3) ^{#2}	110.8(4)	90	Ag(2)-Ag(11)-Ag(10) ^{#2}	91.73(12)
	C(17)-Ag(10)-Ag(3) ^{#2}	42.2(4)		Ag(2) ^{#2} -Ag(11)-Ag(10) ^{#2}	59.62(9)
	O(8) ^{#2} -Ag(10)-Ag(3) ^{#2}	60.7(3)		C(11)-Ag(11)-Ag(7) ^{#2}	153.6(5)
	C(24)-Ag(10)-Ag(3) ^{#2}	147.2(5)		C(23) ^{#2} -Ag(11)-Ag(7) ^{#2}	50.3(5)
	C(18)-Ag(10)-Ag(3) ^{#2}	70.3(3)		O(6) ^{#2} -Ag(11)-Ag(7) ^{#2}	56.4(4)
50	C(23)-Ag(10)-Ag(2)	42.2(5)	95	Ag(2)-Ag(11)-Ag(7) ^{#2}	123.78(15)
	O(10) ^{#2} -Ag(10)-Ag(2)	144.0(4)		Ag(2) ^{#2} -Ag(11)-Ag(7) ^{#2}	61.44(9)
	C(17)-Ag(10)-Ag(2)	80.7(4)		Ag(10) ^{#2} -Ag(11)-Ag(7) ^{#2}	98.65(12)

Symmetry transformations used to generate equivalent atoms: #1 -x,-y,-z+1; #2 -x,-y,-z.

Table S3 Selected bond lengths (Å) and bond angles (°) for compound **2**

100	Ag(1)-C(21)	2.046(15)	105	Ag(1)-Ag(6)	3.142(2)
	Ag(1)-C(18) ^{#1}	2.057(14)		Ag(1)-Ag(11) ^{#1}	3.210(2)
	Ag(1)-Ag(6) ^{#1}	2.9086(19)		Ag(1)-Ag(9) ^{#1}	3.321(2)
	Ag(1)-Ag(2)	3.0042(19)		Ag(2)-C(24)	2.145(15)
	Ag(1)-Ag(9)	3.043(2)		Ag(2)-C(27)	2.146(16)

5	Ag(2)-O(1)	2.503(11)	60	Ag(10)-Ag(4) ^{#1}	3.148(2)
	Ag(2)-Ag(4) ^{#1}	2.8986(18)		Ag(10)-Ag(3) ^{#4}	3.198(2)
	Ag(2)-Ag(6)	2.9173(19)		Ag(11)-C(18)	2.272(17)
	Ag(2)-Ag(7) ^{#1}	2.928(2)		Ag(11)-O(5)	2.299(11)
	Ag(2)-Ag(10)	3.107(2)		Ag(11)-O(3)	2.596(14)
10	Ag(2)-Ag(11) ^{#1}	3.143(2)	65	Ag(11)-C(19)	2.631(16)
	Ag(2)-Ag(9) ^{#1}	3.154(2)		Ag(11)-Ag(2) ^{#1}	3.143(2)
	Ag(3)-C(12)	2.075(15)		Ag(11)-Ag(1) ^{#1}	3.210(2)
	Ag(3)-C(9)	2.125(16)		C(9)-Ag(5) ^{#2}	2.395(15)
	Ag(3)-Ag(5)	2.9159(19)		C(12)-Ag(10) ^{#3}	2.213(15)
15	Ag(3)-Ag(4) ^{#2}	2.9841(18)	70	C(13)-Ag(10) ^{#3}	2.562(15)
	Ag(3)-Ag(8)	3.048(2)		C(18)-Ag(1) ^{#1}	2.057(14)
	Ag(3)-Ag(5) ^{#2}	3.146(2)		C(24)-Ag(9) ^{#1}	2.343(14)
	Ag(3)-Ag(10) ^{#3}	3.198(2)		C(24)-Ag(7) ^{#1}	2.499(14)
	Ag(3)-Ag(8) ^{#2}	3.312(2)		C(25)-Ag(7) ^{#1}	2.703(15)
20	Ag(4)-C(15)	2.109(16)	75	C(27)-Ag(4) ^{#1}	2.186(16)
	Ag(4)-C(27) ^{#1}	2.186(16)		C(21)-Ag(1)-Ag(6) ^{#1}	127.9(4)
	Ag(4)-O(5)	2.509(11)		C(18) ^{#1} -Ag(1)-Ag(6) ^{#1}	54.8(5)
	Ag(4)-Ag(2) ^{#1}	2.8986(18)		C(21)-Ag(1)-Ag(2)	83.5(4)
	Ag(4)-Ag(7)	2.919(2)		C(18) ^{#1} -Ag(1)-Ag(2)	104.7(5)
25	Ag(4)-Ag(5)	2.9207(19)	80	Ag(6) ^{#1} -Ag(1)-Ag(2)	125.18(6)
	Ag(4)-Ag(3) ^{#2}	2.9841(18)		C(21)-Ag(1)-Ag(9)	50.6(4)
	Ag(4)-Ag(11)	3.113(2)		C(18) ^{#1} -Ag(1)-Ag(9)	127.4(5)
	Ag(4)-Ag(10) ^{#1}	3.148(2)		Ag(6) ^{#1} -Ag(1)-Ag(9)	78.14(5)
	Ag(4)-Ag(8)	3.163(2)		Ag(2)-Ag(1)-Ag(9)	122.39(6)
30	Ag(5)-O(6)	2.282(11)	85	C(21)-Ag(1)-Ag(6)	49.4(4)
	Ag(5)-C(9) ^{#2}	2.395(15)		C(18) ^{#1} -Ag(1)-Ag(6)	143.1(5)
	Ag(5)-C(12)	2.447(15)		Ag(6) ^{#1} -Ag(1)-Ag(6)	106.89(5)
	Ag(5)-C(15)	2.611(16)		Ag(2)-Ag(1)-Ag(6)	56.62(4)
	Ag(5)-Ag(3) ^{#2}	3.146(2)		Ag(9)-Ag(1)-Ag(6)	66.54(5)
35	Ag(5)-Ag(8) ^{#2}	3.376(2)	90	C(21)-Ag(1)-Ag(11) ^{#1}	140.2(4)
	Ag(6)-O(2)	2.277(11)		C(18) ^{#1} -Ag(1)-Ag(11) ^{#1}	44.8(5)
	Ag(6)-C(21)	2.384(15)		Ag(6) ^{#1} -Ag(1)-Ag(11) ^{#1}	89.15(6)
	Ag(6)-C(18)	2.406(16)		Ag(2)-Ag(1)-Ag(11) ^{#1}	60.66(5)
	Ag(6)-C(24)	2.563(14)		Ag(9)-Ag(1)-Ag(11) ^{#1}	165.89(6)
40	Ag(6)-Ag(1) ^{#1}	2.9086(18)	95	Ag(6)-Ag(1)-Ag(11) ^{#1}	112.33(5)
	Ag(7)-C(15)	2.419(15)		C(21)-Ag(1)-Ag(9) ^{#1}	120.3(4)
	Ag(7)-O(4)	2.452(14)		C(18) ^{#1} -Ag(1)-Ag(9) ^{#1}	72.2(5)
	Ag(7)-O(7)	2.469(15)		Ag(6) ^{#1} -Ag(1)-Ag(9) ^{#1}	65.64(5)
	Ag(7)-C(24) ^{#1}	2.499(14)		Ag(2)-Ag(1)-Ag(9) ^{#1}	59.56(4)
45	Ag(7)-C(25) ^{#1}	2.703(15)	100	Ag(9)-Ag(1)-Ag(9) ^{#1}	111.09(5)
	Ag(7)-Ag(2) ^{#1}	2.928(2)		Ag(6)-Ag(1)-Ag(9) ^{#1}	70.93(5)
	Ag(8)-C(9)	2.287(15)		Ag(11) ^{#1} -Ag(1)-Ag(9) ^{#1}	57.15(5)
	Ag(8)-C(15)	2.328(15)		C(24)-Ag(2)-Ag(4) ^{#1}	115.5(4)
	Ag(8)-O(8)	2.374(14)		C(27)-Ag(2)-Ag(4) ^{#1}	48.6(4)
50	Ag(8)-Ag(10) ^{#1}	3.142(2)	105	O(1)-Ag(2)-Ag(4) ^{#1}	108.7(3)
	Ag(8)-Ag(3) ^{#2}	3.312(2)		C(24)-Ag(2)-Ag(6)	58.5(4)
	Ag(8)-Ag(5) ^{#2}	3.376(2)		C(27)-Ag(2)-Ag(6)	137.8(4)
	Ag(9)-C(24) ^{#1}	2.343(15)		O(1)-Ag(2)-Ag(6)	71.6(3)
	Ag(9)-C(21)	2.353(15)		Ag(4) ^{#1} -Ag(2)-Ag(6)	173.44(6)
55	Ag(9)-O(3)	2.374(13)	110	C(24)-Ag(2)-Ag(7) ^{#1}	56.5(4)
	Ag(9)-Ag(11)	3.126(2)		C(27)-Ag(2)-Ag(7) ^{#1}	108.7(4)
	Ag(9)-Ag(2) ^{#1}	3.154(2)		O(1)-Ag(2)-Ag(7) ^{#1}	110.0(3)
	Ag(9)-Ag(1) ^{#1}	3.321(2)		Ag(4) ^{#1} -Ag(2)-Ag(7) ^{#1}	60.12(5)
	Ag(10)-C(12) ^{#4}	2.213(15)		Ag(6)-Ag(2)-Ag(7) ^{#1}	113.44(6)
	Ag(10)-O(1)	2.247(13)	115	C(24)-Ag(2)-Ag(1)	97.3(4)
	Ag(10)-C(13) ^{#4}	2.562(15)		C(27)-Ag(2)-Ag(1)	86.5(4)
	Ag(10)-Ag(8) ^{#1}	3.142(2)		O(1)-Ag(2)-Ag(1)	110.0(3)

5	Ag(4) ^{#1} -Ag(2)-Ag(1)	121.05(6)	60	C(27) ^{#1} -Ag(4)-Ag(7)	107.9(4)
	Ag(6)-Ag(2)-Ag(1)	64.06(5)		O(5)-Ag(4)-Ag(7)	110.4(3)
	Ag(7) ^{#1} -Ag(2)-Ag(1)	135.98(6)		Ag(2) ^{#1} -Ag(4)-Ag(7)	60.45(5)
	C(24)-Ag(2)-Ag(10)	124.6(4)		C(15)-Ag(4)-Ag(5)	60.0(4)
	C(27)-Ag(2)-Ag(10)	61.2(4)		C(27) ^{#1} -Ag(4)-Ag(5)	139.1(4)
10	O(1)-Ag(2)-Ag(10)	45.7(3)	65	O(5)-Ag(4)-Ag(5)	70.8(3)
	Ag(4) ^{#1} -Ag(2)-Ag(10)	63.10(5)		Ag(2) ^{#1} -Ag(4)-Ag(5)	173.34(6)
	Ag(6)-Ag(2)-Ag(10)	117.23(6)		Ag(7)-Ag(4)-Ag(5)	113.01(6)
	Ag(7) ^{#1} -Ag(2)-Ag(10)	89.33(6)		C(15)-Ag(4)-Ag(3) ^{#2}	98.2(4)
	Ag(1)-Ag(2)-Ag(10)	132.60(6)		C(27) ^{#1} -Ag(4)-Ag(3) ^{#2}	87.4(4)
15	C(24)-Ag(2)-Ag(11) ^{#1}	105.4(4)	70	O(5)-Ag(4)-Ag(3) ^{#2}	109.5(3)
	C(27)-Ag(2)-Ag(11) ^{#1}	60.1(4)		Ag(2) ^{#1} -Ag(4)-Ag(3) ^{#2}	120.75(6)
	O(1)-Ag(2)-Ag(11) ^{#1}	151.9(3)		Ag(7)-Ag(4)-Ag(3) ^{#2}	135.79(6)
	Ag(4) ^{#1} -Ag(2)-Ag(11) ^{#1}	61.86(5)		Ag(5)-Ag(4)-Ag(3) ^{#2}	64.39(5)
	Ag(6)-Ag(2)-Ag(11) ^{#1}	121.00(6)		C(15)-Ag(4)-Ag(11)	124.5(4)
20	Ag(7) ^{#1} -Ag(2)-Ag(11) ^{#1}	88.67(6)	75	C(27) ^{#1} -Ag(4)-Ag(11)	60.5(4)
	Ag(1)-Ag(2)-Ag(11) ^{#1}	62.91(5)		O(5)-Ag(4)-Ag(11)	46.8(3)
	Ag(10)-Ag(2)-Ag(11) ^{#1}	116.92(6)		Ag(2) ^{#1} -Ag(4)-Ag(11)	62.93(5)
	C(24)-Ag(2)-Ag(9) ^{#1}	48.0(4)		Ag(7)-Ag(4)-Ag(11)	89.43(6)
	C(27)-Ag(2)-Ag(9) ^{#1}	119.6(4)		Ag(5)-Ag(4)-Ag(11)	117.47(6)
25	O(1)-Ag(2)-Ag(9) ^{#1}	145.4(3)	80	Ag(3) ^{#2} -Ag(4)-Ag(11)	132.62(6)
	Ag(4) ^{#1} -Ag(2)-Ag(9) ^{#1}	101.78(6)		C(15)-Ag(4)-Ag(10) ^{#1}	104.5(4)
	Ag(6)-Ag(2)-Ag(9) ^{#1}	76.25(5)		C(27) ^{#1} -Ag(4)-Ag(10) ^{#1}	60.2(4)
	Ag(7) ^{#1} -Ag(2)-Ag(9) ^{#1}	71.52(6)		O(5)-Ag(4)-Ag(10) ^{#1}	152.2(3)
	Ag(1)-Ag(2)-Ag(9) ^{#1}	65.23(5)		Ag(2) ^{#1} -Ag(4)-Ag(10) ^{#1}	61.69(5)
30	Ag(10)-Ag(2)-Ag(9) ^{#1}	160.26(6)	85	Ag(7)-Ag(4)-Ag(10) ^{#1}	88.73(6)
	Ag(11) ^{#1} -Ag(2)-Ag(9) ^{#1}	59.52(5)		Ag(5)-Ag(4)-Ag(10) ^{#1}	121.15(6)
	C(12)-Ag(3)-Ag(5)	55.7(4)		Ag(3) ^{#2} -Ag(4)-Ag(10) ^{#1}	62.79(5)
	C(9)-Ag(3)-Ag(5)	125.8(4)		Ag(11)-Ag(4)-Ag(10) ^{#1}	116.63(6)
	C(12)-Ag(3)-Ag(4) ^{#2}	103.8(4)		C(15)-Ag(4)-Ag(8)	47.4(4)
35	C(9)-Ag(3)-Ag(4) ^{#2}	85.0(4)	90	C(27) ^{#1} -Ag(4)-Ag(8)	119.9(4)
	Ag(5)-Ag(3)-Ag(4) ^{#2}	125.32(6)		O(5)-Ag(4)-Ag(8)	144.5(3)
	C(12)-Ag(3)-Ag(8)	128.5(4)		Ag(2) ^{#1} -Ag(4)-Ag(8)	101.94(6)
	C(9)-Ag(3)-Ag(8)	48.6(4)		Ag(7)-Ag(4)-Ag(8)	71.44(6)
	Ag(5)-Ag(3)-Ag(8)	77.90(5)		Ag(5)-Ag(4)-Ag(8)	76.00(5)
40	Ag(4) ^{#2} -Ag(3)-Ag(8)	122.07(6)	95	Ag(3) ^{#2} -Ag(4)-Ag(8)	65.13(5)
	C(12)-Ag(3)-Ag(5) ^{#2}	142.6(4)		Ag(11)-Ag(4)-Ag(8)	160.25(6)
	C(9)-Ag(3)-Ag(5) ^{#2}	49.5(4)		Ag(10) ^{#1} -Ag(4)-Ag(8)	59.72(5)
	Ag(5)-Ag(3)-Ag(5) ^{#2}	106.48(5)		O(6)-Ag(5)-Ag(3)	153.9(3)
	Ag(4) ^{#2} -Ag(3)-Ag(5) ^{#2}	56.83(4)		C(9) ^{#2} -Ag(5)-Ag(3)	98.4(4)
45	Ag(8)-Ag(3)-Ag(5) ^{#2}	66.04(5)	100	C(12)-Ag(5)-Ag(3)	44.5(4)
	C(12)-Ag(3)-Ag(10) ^{#3}	43.5(4)		C(15)-Ag(5)-Ag(3)	81.9(3)
	C(9)-Ag(3)-Ag(10) ^{#3}	142.4(4)		O(6)-Ag(5)-Ag(4)	89.4(3)
	Ag(5)-Ag(3)-Ag(10) ^{#3}	89.22(6)		C(9) ^{#2} -Ag(5)-Ag(4)	82.0(4)
	Ag(4) ^{#2} -Ag(3)-Ag(10) ^{#3}	61.11(5)		C(12)-Ag(5)-Ag(4)	149.2(4)
50	Ag(8)-Ag(3)-Ag(10) ^{#3}	165.77(6)	105	C(15)-Ag(5)-Ag(4)	44.4(4)
	Ag(5) ^{#2} -Ag(3)-Ag(10) ^{#3}	112.89(5)		Ag(3)-Ag(5)-Ag(4)	106.56(6)
	C(12)-Ag(3)-Ag(8) ^{#2}	71.7(4)		O(6)-Ag(5)-Ag(3) ^{#2}	132.4(3)
	C(9)-Ag(3)-Ag(8) ^{#2}	120.5(4)		C(9) ^{#2} -Ag(5)-Ag(3) ^{#2}	42.5(4)
	Ag(5)-Ag(3)-Ag(8) ^{#2}	65.29(5)		C(12)-Ag(5)-Ag(3) ^{#2}	109.6(3)
55	Ag(4) ^{#2} -Ag(3)-Ag(8) ^{#2}	60.04(4)	110	C(15)-Ag(5)-Ag(3) ^{#2}	84.5(3)
	Ag(8)-Ag(3)-Ag(8) ^{#2}	110.48(5)		Ag(3)-Ag(5)-Ag(3) ^{#2}	73.52(5)
	Ag(5) ^{#2} -Ag(3)-Ag(8) ^{#2}	70.95(5)		Ag(4)-Ag(5)-Ag(3) ^{#2}	58.78(4)
	Ag(10) ^{#3} -Ag(3)-Ag(8) ^{#2}	57.69(5)		O(6)-Ag(5)-Ag(8) ^{#2}	129.5(3)
	C(15)-Ag(4)-Ag(2) ^{#1}	113.9(4)		C(9) ^{#2} -Ag(5)-Ag(8) ^{#2}	42.6(4)
	C(27) ^{#1} -Ag(4)-Ag(2) ^{#1}	47.4(4)	115	C(12)-Ag(5)-Ag(8) ^{#2}	67.1(3)
	O(5)-Ag(4)-Ag(2) ^{#1}	109.6(3)		C(15)-Ag(5)-Ag(8) ^{#2}	131.9(3)
	C(15)-Ag(4)-Ag(7)	54.7(4)		Ag(3)-Ag(5)-Ag(8) ^{#2}	63.03(5)

5	Ag(4)-Ag(5)-Ag(8) ^{#2}	113.68(6)	60	C(24) ^{#1} -Ag(9)-Ag(11)	101.0(4)
	Ag(3) ^{#2} -Ag(5)-Ag(8) ^{#2}	55.58(4)		C(21)-Ag(9)-Ag(11)	124.9(4)
	O(2)-Ag(6)-Ag(1) ^{#1}	152.5(3)		O(3)-Ag(9)-Ag(11)	54.3(3)
	C(21)-Ag(6)-Ag(1) ^{#1}	98.3(4)		Ag(1)-Ag(9)-Ag(11)	127.86(7)
	C(18)-Ag(6)-Ag(1) ^{#1}	44.3(3)		C(24) ^{#1} -Ag(9)-Ag(2) ^{#1}	42.8(4)
10	C(24)-Ag(6)-Ag(1) ^{#1}	81.2(3)	65	C(21)-Ag(9)-Ag(2) ^{#1}	136.5(4)
	O(2)-Ag(6)-Ag(2)	90.2(3)		O(3)-Ag(9)-Ag(2) ^{#1}	98.9(3)
	C(21)-Ag(6)-Ag(2)	80.2(4)		Ag(1)-Ag(9)-Ag(2) ^{#1}	97.54(6)
	C(18)-Ag(6)-Ag(2)	148.4(4)		Ag(11)-Ag(9)-Ag(2) ^{#1}	60.08(5)
	C(24)-Ag(6)-Ag(2)	45.5(3)		C(24) ^{#1} -Ag(9)-Ag(1) ^{#1}	85.4(4)
15	Ag(1) ^{#1} -Ag(6)-Ag(2)	106.28(6)	70	C(21)-Ag(9)-Ag(1) ^{#1}	88.4(4)
	O(2)-Ag(6)-Ag(1)	134.2(3)		O(3)-Ag(9)-Ag(1) ^{#1}	112.6(3)
	C(21)-Ag(6)-Ag(1)	40.6(4)		Ag(1)-Ag(9)-Ag(1) ^{#1}	68.91(5)
	C(18)-Ag(6)-Ag(1)	109.4(4)		Ag(11)-Ag(9)-Ag(1) ^{#1}	59.64(5)
	C(24)-Ag(6)-Ag(1)	85.8(3)		Ag(2) ^{#1} -Ag(9)-Ag(1) ^{#1}	55.22(4)
20	Ag(1) ^{#1} -Ag(6)-Ag(1)	73.11(5)	75	C(12) ^{#4} -Ag(10)-Ag(2)	148.1(4)
	Ag(2)-Ag(6)-Ag(1)	59.31(4)		O(1)-Ag(10)-Ag(2)	52.8(3)
	C(15)-Ag(7)-Ag(4)	45.4(4)		C(13) ^{#4} -Ag(10)-Ag(2)	166.8(4)
	O(4)-Ag(7)-Ag(4)	105.0(3)		C(12) ^{#4} -Ag(10)-Ag(8) ^{#1}	74.1(4)
	O(7)-Ag(7)-Ag(4)	111.0(4)		O(1)-Ag(10)-Ag(8) ^{#1}	126.5(3)
25	C(24) ^{#1} -Ag(7)-Ag(4)	104.3(3)	80	C(13) ^{#4} -Ag(10)-Ag(8) ^{#1}	91.1(3)
	C(25) ^{#1} -Ag(7)-Ag(4)	130.4(3)		Ag(2)-Ag(10)-Ag(8) ^{#1}	97.85(6)
	C(15)-Ag(7)-Ag(2) ^{#1}	103.8(4)		C(12) ^{#4} -Ag(10)-Ag(4) ^{#1}	95.6(4)
	O(4)-Ag(7)-Ag(2) ^{#1}	111.5(4)		O(1)-Ag(10)-Ag(4) ^{#1}	107.9(3)
	O(7)-Ag(7)-Ag(2) ^{#1}	105.5(4)		C(13) ^{#4} -Ag(10)-Ag(4) ^{#1}	123.1(3)
30	C(24) ^{#1} -Ag(7)-Ag(2) ^{#1}	45.7(3)	85	Ag(2)-Ag(10)-Ag(4) ^{#1}	55.21(4)
	C(25) ^{#1} -Ag(7)-Ag(2) ^{#1}	71.8(3)		Ag(8) ^{#1} -Ag(10)-Ag(4) ^{#1}	60.38(5)
	Ag(4)-Ag(7)-Ag(2) ^{#1}	59.43(4)		C(12) ^{#4} -Ag(10)-Ag(3) ^{#4}	40.2(4)
	C(9)-Ag(8)-Ag(3)	44.1(4)		O(1)-Ag(10)-Ag(3) ^{#4}	157.3(3)
	C(15)-Ag(8)-Ag(3)	83.8(4)		C(13) ^{#4} -Ag(10)-Ag(3) ^{#4}	67.2(3)
35	O(8)-Ag(8)-Ag(3)	160.0(4)	90	Ag(2)-Ag(10)-Ag(3) ^{#4}	108.39(6)
	C(9)-Ag(8)-Ag(10) ^{#1}	124.8(4)		Ag(8) ^{#1} -Ag(10)-Ag(3) ^{#4}	62.99(5)
	C(15)-Ag(8)-Ag(10) ^{#1}	99.4(4)		Ag(4) ^{#1} -Ag(10)-Ag(3) ^{#4}	56.10(4)
	O(8)-Ag(8)-Ag(10) ^{#1}	54.6(4)		C(18)-Ag(11)-Ag(4)	147.9(4)
	Ag(3)-Ag(8)-Ag(10) ^{#1}	128.14(7)		O(5)-Ag(11)-Ag(4)	52.7(3)
40	C(9)-Ag(8)-Ag(4)	138.5(4)	95	O(3)-Ag(11)-Ag(4)	93.1(3)
	C(15)-Ag(8)-Ag(4)	41.8(4)		C(19)-Ag(11)-Ag(4)	166.4(3)
	O(8)-Ag(8)-Ag(4)	99.3(3)		C(18)-Ag(11)-Ag(9)	74.3(4)
	Ag(3)-Ag(8)-Ag(4)	97.74(6)		O(5)-Ag(11)-Ag(9)	126.4(3)
	Ag(10) ^{#1} -Ag(8)-Ag(4)	59.90(5)		O(3)-Ag(11)-Ag(9)	47.9(3)
45	C(9)-Ag(8)-Ag(3) ^{#2}	90.3(4)	100	C(19)-Ag(11)-Ag(9)	92.4(3)
	C(15)-Ag(8)-Ag(3) ^{#2}	85.4(4)		Ag(4)-Ag(11)-Ag(9)	97.75(6)
	O(8)-Ag(8)-Ag(3) ^{#2}	112.6(4)		C(18)-Ag(11)-Ag(2) ^{#1}	95.4(4)
	Ag(3)-Ag(8)-Ag(3) ^{#2}	69.52(5)		O(5)-Ag(11)-Ag(2) ^{#1}	107.8(3)
	Ag(10) ^{#1} -Ag(8)-Ag(3) ^{#2}	59.32(5)		O(3)-Ag(11)-Ag(2) ^{#1}	94.5(3)
50	Ag(4)-Ag(8)-Ag(3) ^{#2}	54.82(4)	105	C(19)-Ag(11)-Ag(2) ^{#1}	124.4(3)
	C(9)-Ag(8)-Ag(5) ^{#2}	45.1(4)		Ag(4)-Ag(11)-Ag(2) ^{#1}	55.20(4)
	C(15)-Ag(8)-Ag(5) ^{#2}	129.1(4)		Ag(9)-Ag(11)-Ag(2) ^{#1}	60.40(5)
	O(8)-Ag(8)-Ag(5) ^{#2}	106.2(4)		C(18)-Ag(11)-Ag(1) ^{#1}	39.6(4)
	Ag(3)-Ag(8)-Ag(5) ^{#2}	58.38(5)		O(5)-Ag(11)-Ag(1) ^{#1}	157.3(3)
55	Ag(10) ^{#1} -Ag(8)-Ag(5) ^{#2}	82.41(6)	110	O(3)-Ag(11)-Ag(1) ^{#1}	109.9(3)
	Ag(4)-Ag(8)-Ag(5) ^{#2}	106.50(6)		C(19)-Ag(11)-Ag(1) ^{#1}	68.1(3)
	Ag(3) ^{#2} -Ag(8)-Ag(5) ^{#2}	51.68(4)		Ag(4)-Ag(11)-Ag(1) ^{#1}	108.72(6)
	C(24) ^{#1} -Ag(9)-Ag(1)	82.0(4)		Ag(9)-Ag(11)-Ag(1) ^{#1}	63.21(5)
	C(21)-Ag(9)-Ag(1)	42.2(4)		Ag(2) ^{#1} -Ag(11)-Ag(1) ^{#1}	56.43(4)
	O(3)-Ag(9)-Ag(1)	160.2(3)			

Symmetry transformations used to generate equivalent atoms: #1 -x+1,-y,-z+1; #2 -x+1,-y,-z+2; #3 x,y,z+1; #4 x,y,z-1.

Table S4 Selected bond lengths (Å) and bond angles (°) for compound **3**

5	Ag(1)-C(41)	1.986(14)	60	Ag(11)-C(47) ^{#2}	2.290(16)
	Ag(1)-C(35)	2.028(17)		Ag(11)-C(41)	2.430(16)
	Ag(1)-Ag(5)	2.886(2)		Ag(11)-Ag(9) ^{#2}	2.988(2)
	Ag(1)-Ag(11)	2.918(2)		Ag(11)-Ag(2) ^{#2}	3.270(2)
	Ag(1)-Ag(4)	2.931(2)		Ag(12)-C(11)	2.26(2)
10	Ag(1)-Ag(7)	3.162(2)	65	Ag(12)-C(23)	2.31(2)
	Ag(2)-C(47)	2.130(16)		Ag(12)-O(11W)	2.52(3)
	Ag(2)-C(29)	2.365(17)		C(11)-Ag(10) ^{#1}	2.20(2)
	Ag(2)-C(30)	2.708(18)		C(17)-Ag(4) ^{#1}	2.316(19)
	Ag(2)-Ag(3)	2.894(2)		C(18)-Ag(4) ^{#1}	2.69(2)
15	Ag(2)-Ag(9)	2.988(2)	70	C(47)-Ag(11) ^{#1}	2.290(16)
	Ag(2)-Ag(6)	3.108(2)		O(10)-Ag(11) ^{#1}	2.287(17)
	Ag(2)-Ag(11) ^{#1}	3.270(2)		C(41)-Ag(1)-Ag(5)	54.2(5)
	Ag(3)-C(29)	2.049(14)		C(35)-Ag(1)-Ag(5)	120.2(5)
	Ag(3)-C(23)	2.066(19)		C(41)-Ag(1)-Ag(11)	55.6(5)
20	Ag(3)-O(7)	2.325(18)	75	C(35)-Ag(1)-Ag(11)	132.5(5)
	Ag(3)-Ag(6)	2.800(2)		Ag(5)-Ag(1)-Ag(11)	106.01(6)
	Ag(3)-Ag(5)	2.945(2)		C(41)-Ag(1)-Ag(4)	136.5(5)
	Ag(3)-Ag(12)	3.015(2)		C(35)-Ag(1)-Ag(4)	50.4(5)
	Ag(3)-Ag(7)	3.061(2)		Ag(5)-Ag(1)-Ag(4)	103.72(7)
25	Ag(4)-C(35)	2.264(19)	80	Ag(11)-Ag(1)-Ag(4)	110.86(7)
	Ag(4)-O(1)	2.270(14)		C(41)-Ag(1)-Ag(7)	125.3(5)
	Ag(4)-C(17) ^{#2}	2.316(19)		C(35)-Ag(1)-Ag(7)	47.8(5)
	Ag(4)-C(18) ^{#2}	2.69(2)		Ag(5)-Ag(1)-Ag(7)	72.45(6)
	Ag(4)-Ag(7)	3.160(2)		Ag(11)-Ag(1)-Ag(7)	171.73(8)
30	Ag(4)-Ag(9) ^{#2}	3.241(2)	85	Ag(4)-Ag(1)-Ag(7)	62.35(5)
	Ag(4)-Ag(8) ^{#2}	3.334(2)		C(47)-Ag(2)-Ag(3)	155.5(5)
	Ag(5)-O(5)	2.243(13)		C(29)-Ag(2)-Ag(3)	44.5(3)
	Ag(5)-C(29)	2.249(17)		C(30)-Ag(2)-Ag(3)	78.8(3)
	Ag(5)-C(41)	2.361(16)		C(47)-Ag(2)-Ag(9)	45.2(5)
35	Ag(5)-Ag(10)	3.043(2)	90	C(29)-Ag(2)-Ag(9)	148.2(4)
	Ag(6)-C(23)	1.991(19)		C(30)-Ag(2)-Ag(9)	153.2(4)
	Ag(6)-O(4)	2.128(16)		Ag(3)-Ag(2)-Ag(9)	110.42(7)
	Ag(6)-Ag(9)	3.046(2)		C(47)-Ag(2)-Ag(6)	102.4(5)
	Ag(7)-O(2)	2.320(19)		C(29)-Ag(2)-Ag(6)	88.6(4)
40	Ag(7)-C(35)	2.346(17)	95	C(30)-Ag(2)-Ag(6)	113.2(4)
	Ag(7)-C(29)	2.373(16)		Ag(3)-Ag(2)-Ag(6)	55.48(5)
	Ag(7)-O(3)	2.584(17)		Ag(9)-Ag(2)-Ag(6)	59.93(5)
	Ag(7)-C(36)	2.687(19)		C(47)-Ag(2)-Ag(11) ^{#1}	44.2(4)
	Ag(8)-C(11)	1.959(15)		C(29)-Ag(2)-Ag(11) ^{#1}	149.7(4)
45	Ag(8)-C(17)	1.996(16)	100	C(30)-Ag(2)-Ag(11) ^{#1}	137.6(4)
	Ag(8)-Ag(9)	2.788(2)		Ag(3)-Ag(2)-Ag(11) ^{#1}	127.57(8)
	Ag(8)-Ag(12)	2.870(3)		Ag(9)-Ag(2)-Ag(11) ^{#1}	56.82(5)
	Ag(8)-Ag(10) ^{#1}	2.983(2)		Ag(6)-Ag(2)-Ag(11) ^{#1}	109.11(7)
	Ag(8)-Ag(4) ^{#1}	3.334(2)		C(29)-Ag(3)-Ag(6)	104.4(5)
50	Ag(9)-C(17)	2.029(18)	105	C(23)-Ag(3)-Ag(6)	45.3(5)
	Ag(9)-C(47)	2.119(17)		O(7)-Ag(3)-Ag(6)	123.4(5)
	Ag(9)-Ag(11) ^{#1}	2.988(2)		C(29)-Ag(3)-Ag(2)	53.9(5)
	Ag(9)-Ag(4) ^{#1}	3.241(2)		C(23)-Ag(3)-Ag(2)	91.2(6)
	Ag(10)-C(11) ^{#2}	2.20(2)		O(7)-Ag(3)-Ag(2)	170.1(5)
55	Ag(10)-C(41)	2.239(18)	110	Ag(6)-Ag(3)-Ag(2)	66.14(5)
	Ag(10)-O(6)	2.340(17)		C(29)-Ag(3)-Ag(5)	49.7(5)
	Ag(10)-Ag(11)	2.941(3)		C(23)-Ag(3)-Ag(5)	163.3(5)
	Ag(10)-Ag(8) ^{#2}	2.983(2)		O(7)-Ag(3)-Ag(5)	74.3(5)
	Ag(11)-O(10) ^{#2}	2.287(17)		Ag(6)-Ag(3)-Ag(5)	151.43(7)

5	Ag(2)-Ag(3)-Ag(5)	98.23(6)	60	C(35)-Ag(7)-Ag(3)	136.5(4)
	C(29)-Ag(3)-Ag(12)	114.7(5)		C(29)-Ag(7)-Ag(3)	42.0(3)
	C(23)-Ag(3)-Ag(12)	49.8(6)		O(3)-Ag(7)-Ag(3)	95.9(4)
	O(7)-Ag(3)-Ag(12)	107.7(4)		C(36)-Ag(7)-Ag(3)	163.1(4)
	Ag(6)-Ag(3)-Ag(12)	77.70(7)		O(2)-Ag(7)-Ag(4)	77.1(4)
10	Ag(2)-Ag(3)-Ag(12)	70.28(7)	65	C(35)-Ag(7)-Ag(4)	45.6(5)
	Ag(5)-Ag(3)-Ag(12)	121.04(7)		C(29)-Ag(7)-Ag(4)	122.5(4)
	C(29)-Ag(3)-Ag(7)	50.8(5)		O(3)-Ag(7)-Ag(4)	143.6(4)
	C(23)-Ag(3)-Ag(7)	122.2(6)		C(36)-Ag(7)-Ag(4)	60.2(4)
	O(7)-Ag(3)-Ag(7)	102.7(4)		Ag(3)-Ag(7)-Ag(4)	103.74(7)
15	Ag(6)-Ag(3)-Ag(7)	80.54(7)	70	O(2)-Ag(7)-Ag(1)	127.9(5)
	Ag(2)-Ag(3)-Ag(7)	80.89(6)		C(35)-Ag(7)-Ag(1)	39.9(4)
	Ag(5)-Ag(3)-Ag(7)	73.17(6)		C(29)-Ag(7)-Ag(1)	82.7(4)
	Ag(12)-Ag(3)-Ag(7)	149.04(7)		O(3)-Ag(7)-Ag(1)	150.1(4)
	C(35)-Ag(4)-Ag(1)	43.6(4)		C(36)-Ag(7)-Ag(1)	67.4(4)
20	O(1)-Ag(4)-Ag(1)	138.5(3)	75	Ag(3)-Ag(7)-Ag(1)	99.82(7)
	C(17) ^{#2} -Ag(4)-Ag(1)	96.6(4)		Ag(4)-Ag(7)-Ag(1)	55.25(5)
	C(18) ^{#2} -Ag(4)-Ag(1)	129.9(4)		C(11)-Ag(8)-C(17)	167.4(9)
	C(35)-Ag(4)-Ag(7)	47.8(4)		C(11)-Ag(8)-Ag(9)	123.6(7)
	O(1)-Ag(4)-Ag(7)	78.5(4)		C(17)-Ag(8)-Ag(9)	46.7(5)
25	C(17) ^{#2} -Ag(4)-Ag(7)	158.8(4)	80	C(11)-Ag(8)-Ag(12)	51.8(6)
	C(18) ^{#2} -Ag(4)-Ag(7)	166.1(4)		C(17)-Ag(8)-Ag(12)	116.7(6)
	Ag(1)-Ag(4)-Ag(7)	62.40(5)		Ag(9)-Ag(8)-Ag(12)	91.41(8)
	C(35)-Ag(4)-Ag(9) ^{#2}	81.0(4)		C(11)-Ag(8)-Ag(10) ^{#1}	47.6(7)
	O(1)-Ag(4)-Ag(9) ^{#2}	155.0(3)		C(17)-Ag(8)-Ag(10) ^{#1}	137.5(5)
30	C(17) ^{#2} -Ag(4)-Ag(9) ^{#2}	38.5(4)	85	Ag(9)-Ag(8)-Ag(10) ^{#1}	107.67(7)
	C(18) ^{#2} -Ag(4)-Ag(9) ^{#2}	64.6(4)		Ag(12)-Ag(8)-Ag(10) ^{#1}	93.11(7)
	Ag(1)-Ag(4)-Ag(9) ^{#2}	66.47(5)		C(11)-Ag(8)-Ag(4) ^{#1}	145.6(7)
	Ag(7)-Ag(4)-Ag(9) ^{#2}	124.89(7)		C(17)-Ag(8)-Ag(4) ^{#1}	43.0(5)
	C(35)-Ag(4)-Ag(8) ^{#2}	113.9(4)		Ag(9)-Ag(8)-Ag(4) ^{#1}	63.19(6)
35	O(1)-Ag(4)-Ag(8) ^{#2}	125.9(6)	90	Ag(12)-Ag(8)-Ag(4) ^{#1}	154.30(8)
	C(17) ^{#2} -Ag(4)-Ag(8) ^{#2}	36.0(4)		Ag(10) ^{#1} -Ag(8)-Ag(4) ^{#1}	98.18(7)
	C(18) ^{#2} -Ag(4)-Ag(8) ^{#2}	66.7(4)		C(17)-Ag(9)-Ag(8)	45.7(5)
	Ag(1)-Ag(4)-Ag(8) ^{#2}	74.22(6)		C(47)-Ag(9)-Ag(8)	118.6(4)
	Ag(7)-Ag(4)-Ag(8) ^{#2}	126.91(7)		C(17)-Ag(9)-Ag(2)	129.7(5)
40	Ag(9) ^{#2} -Ag(4)-Ag(8) ^{#2}	50.16(5)	95	C(47)-Ag(9)-Ag(2)	45.5(4)
	O(5)-Ag(5)-Ag(1)	150.8(4)		Ag(8)-Ag(9)-Ag(2)	99.48(7)
	C(29)-Ag(5)-Ag(1)	91.5(4)		C(17)-Ag(9)-Ag(11) ^{#1}	114.9(5)
	C(41)-Ag(5)-Ag(1)	43.0(3)		C(47)-Ag(9)-Ag(11) ^{#1}	49.8(4)
	O(5)-Ag(5)-Ag(3)	93.3(4)		Ag(8)-Ag(9)-Ag(11) ^{#1}	71.61(7)
45	C(29)-Ag(5)-Ag(3)	44.0(4)	100	Ag(2)-Ag(9)-Ag(11) ^{#1}	66.34(5)
	C(41)-Ag(5)-Ag(3)	152.2(3)		C(17)-Ag(9)-Ag(6)	78.5(5)
	Ag(1)-Ag(5)-Ag(3)	109.46(6)		C(47)-Ag(9)-Ag(6)	104.6(4)
	O(5)-Ag(5)-Ag(10)	81.5(4)		Ag(8)-Ag(9)-Ag(6)	86.76(7)
	C(29)-Ag(5)-Ag(10)	158.1(4)		Ag(2)-Ag(9)-Ag(6)	61.98(5)
50	C(41)-Ag(5)-Ag(10)	46.9(4)	105	Ag(11) ^{#1} -Ag(9)-Ag(6)	118.89(7)
	Ag(1)-Ag(5)-Ag(10)	69.86(6)		C(17)-Ag(9)-Ag(4) ^{#1}	45.3(5)
	Ag(3)-Ag(5)-Ag(10)	130.52(8)		C(47)-Ag(9)-Ag(4) ^{#1}	133.8(4)
	C(23)-Ag(6)-Ag(3)	47.5(6)		Ag(8)-Ag(9)-Ag(4) ^{#1}	66.65(6)
	O(4)-Ag(6)-Ag(3)	130.5(5)		Ag(2)-Ag(9)-Ag(4) ^{#1}	164.41(7)
55	C(23)-Ag(6)-Ag(9)	106.6(6)	110	Ag(11) ^{#1} -Ag(9)-Ag(4) ^{#1}	101.22(6)
	O(4)-Ag(6)-Ag(9)	63.1(5)		Ag(6)-Ag(9)-Ag(4) ^{#1}	121.57(7)
	Ag(3)-Ag(6)-Ag(9)	111.38(6)		C(11) ^{#2} -Ag(10)-Ag(11)	79.8(6)
	C(23)-Ag(6)-Ag(2)	86.6(6)		C(41)-Ag(10)-Ag(11)	53.9(4)
	O(4)-Ag(6)-Ag(2)	84.4(5)		O(6)-Ag(10)-Ag(11)	148.1(5)
	Ag(3)-Ag(6)-Ag(2)	58.38(5)	115	C(11) ^{#2} -Ag(10)-Ag(8) ^{#2}	41.0(4)
	Ag(9)-Ag(6)-Ag(2)	58.10(5)		C(41)-Ag(10)-Ag(8) ^{#2}	103.4(4)
	O(2)-Ag(7)-Ag(3)	70.1(4)		O(6)-Ag(10)-Ag(8) ^{#2}	140.8(5)

5	Ag(11)-Ag(10)-Ag(8) ^{#2}	69.65(6)	20	Ag(1)-Ag(11)-Ag(9) ^{#2}	70.11(6)
	C(11) ^{#2} -Ag(10)-Ag(5)	149.8(5)		Ag(10)-Ag(11)-Ag(9) ^{#2}	103.61(8)
	C(41)-Ag(10)-Ag(5)	50.3(4)		O(10) ^{#2} -Ag(11)-Ag(2) ^{#2}	82.9(4)
	O(6)-Ag(10)-Ag(5)	78.3(5)		C(47) ^{#2} -Ag(11)-Ag(2) ^{#2}	40.4(4)
	Ag(11)-Ag(10)-Ag(5)	101.53(7)		C(41)-Ag(11)-Ag(2) ^{#2}	167.2(3)
10	Ag(8) ^{#2} -Ag(10)-Ag(5)	110.62(8)	25	Ag(1)-Ag(11)-Ag(2) ^{#2}	125.26(7)
	O(10) ^{#2} -Ag(11)-Ag(1)	151.7(4)		Ag(10)-Ag(11)-Ag(2) ^{#2}	131.17(10)
	C(47) ^{#2} -Ag(11)-Ag(1)	92.4(4)		Ag(9) ^{#2} -Ag(11)-Ag(2) ^{#2}	56.83(5)
	C(41)-Ag(11)-Ag(1)	42.4(3)		C(11)-Ag(12)-Ag(8)	42.9(4)
	O(10) ^{#2} -Ag(11)-Ag(10)	93.3(6)		C(23)-Ag(12)-Ag(8)	91.6(6)
15	C(47) ^{#2} -Ag(11)-Ag(10)	148.6(4)	30	O(11W)-Ag(12)-Ag(8)	164.6(6)
	C(41)-Ag(11)-Ag(10)	48.1(4)		C(11)-Ag(12)-Ag(3)	162.5(5)
	Ag(1)-Ag(11)-Ag(10)	70.87(6)		C(23)-Ag(12)-Ag(3)	43.2(5)
	O(10) ^{#2} -Ag(11)-Ag(9) ^{#2}	137.8(4)		O(11W)-Ag(12)-Ag(3)	67.6(6)
	C(47) ^{#2} -Ag(11)-Ag(9) ^{#2}	45.0(4)		Ag(8)-Ag(12)-Ag(3)	122.85(9)
	C(41)-Ag(11)-Ag(9) ^{#2}	110.4(3)			

Symmetry transformations used to generate equivalent atoms: #1 x+1,y,z; #2 x-1,y,z.

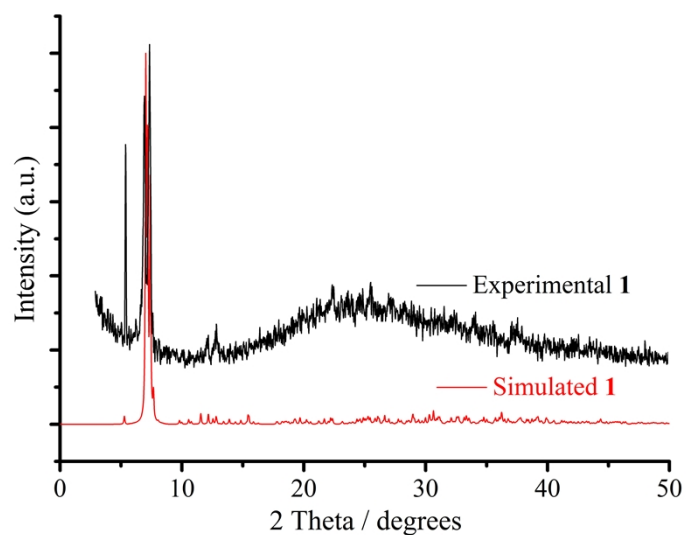


Fig. S1 Simulated and experimental X-ray powder diffraction patterns of **1**.

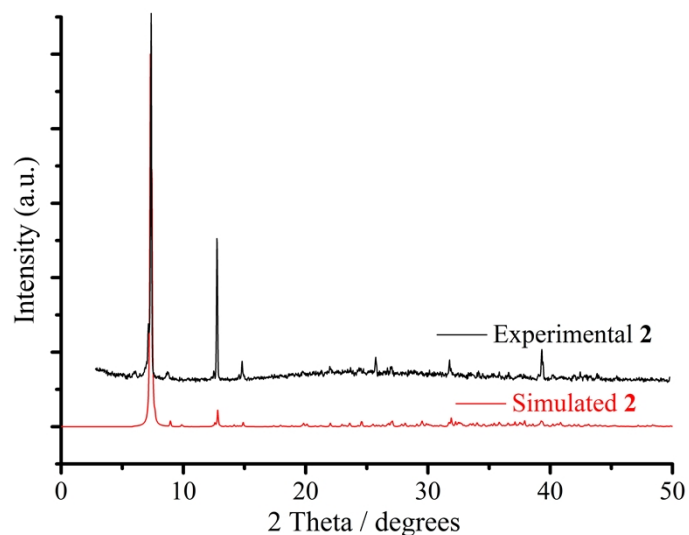


Fig. S2 Simulated and experimental X-ray powder diffraction patterns of **2**.

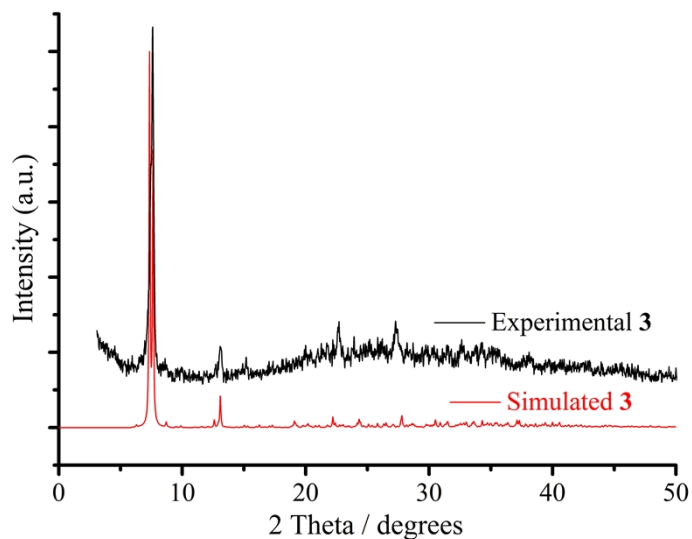


Fig. S3 Simulated and experimental X-ray powder diffraction patterns of **3**.

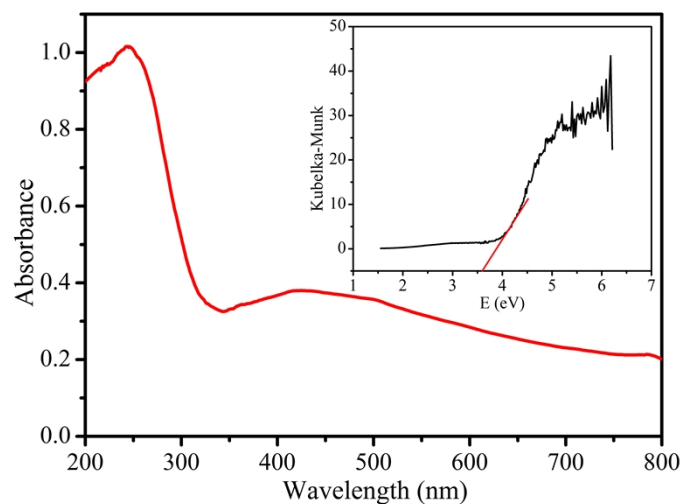


Fig. S4 UV-Vis-NIR absorption spectrum of **1**; (inset) diffuse reflectance UV-Vis-NIR spectrum of K-M function vs energy (eV) of **1**.

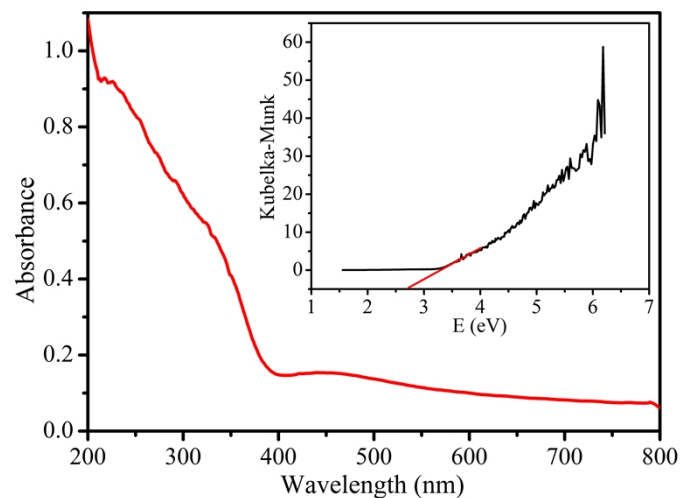


Fig. S5 UV-Vis-NIR absorption spectrum of **2**; (inset) diffuse reflectance UV-Vis-NIR spectrum of K-M function vs energy (eV) of **2**.

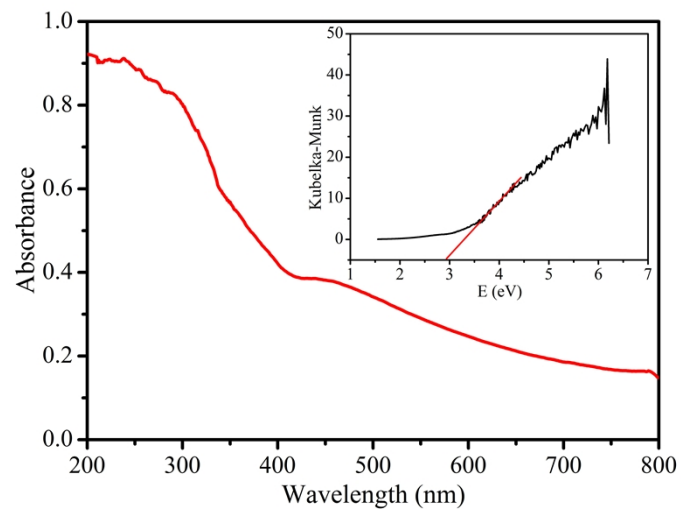


Fig. S6 UV-Vis-NIR absorption spectrum of **3**; (inset) diffuse reflectance UV-Vis-NIR spectrum of K-M function vs energy (eV) of **3**.

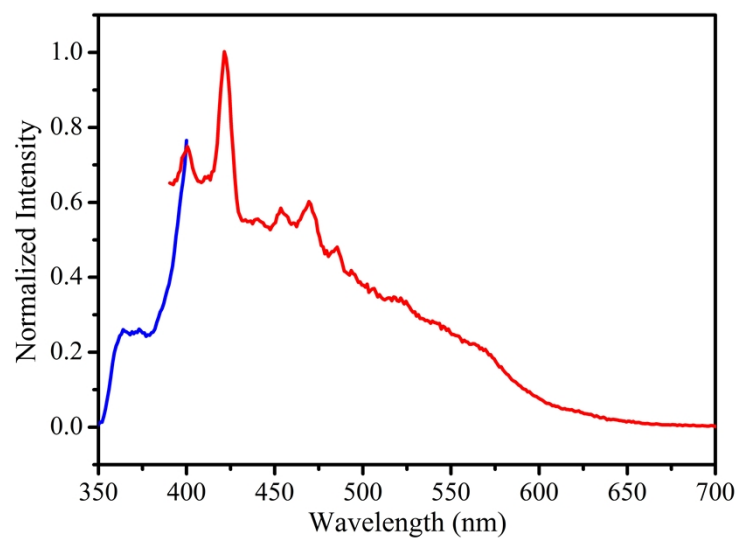


Fig. S7 Excitation spectrum (blue trace) and emission spectrum (red trace) of **1** in the solid state.

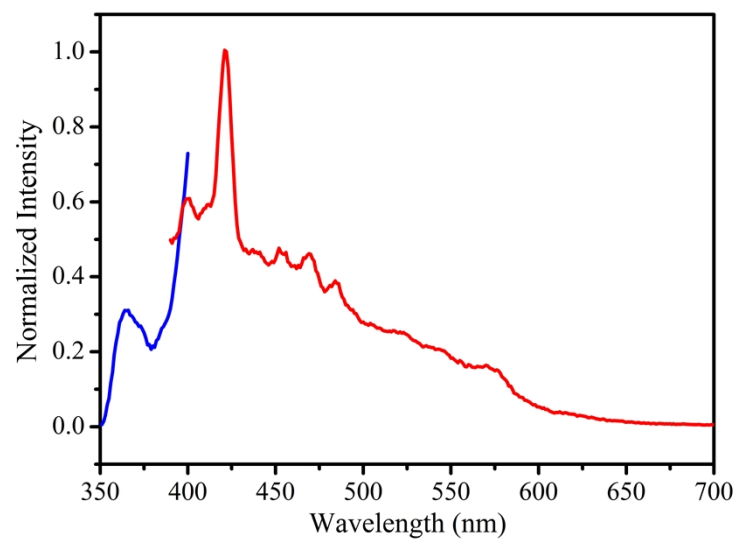


Fig. S8 Excitation spectrum (blue trace) and emission spectrum (red trace) of **2** in the solid state.

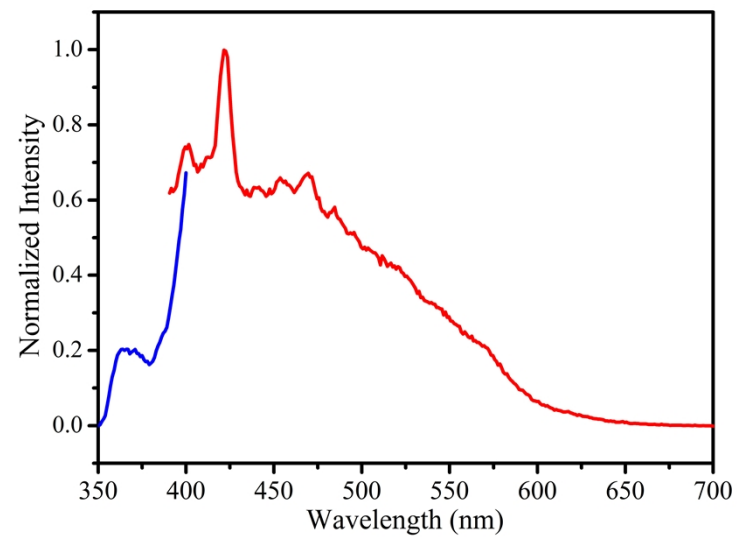


Fig. S9 Excitation spectrum (blue trace) and emission spectrum (red trace) of **3** in the solid state.

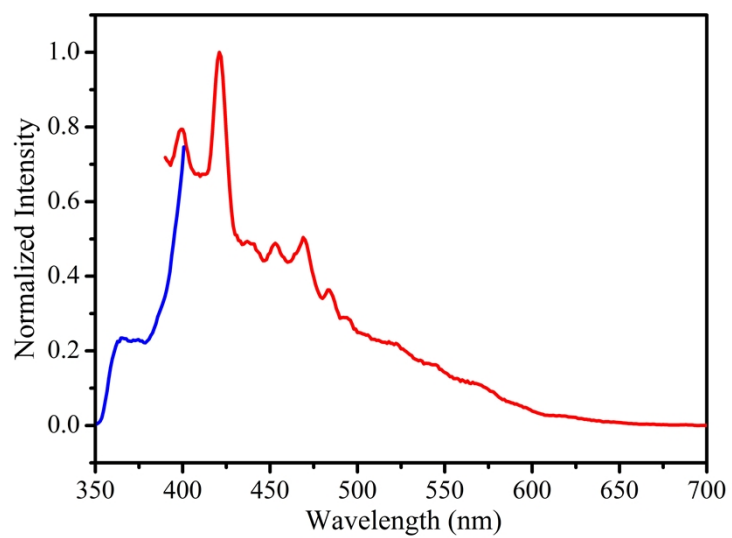


Fig. S10 Excitation spectrum (blue trace) and emission spectrum (red trace) of $\text{AgC}\equiv\text{C}'\text{Bu}$ ligand in the solid state.