Supplementary Materials: *N*-Heterocyclic Carbene Coinage Metal Complexes Containing Naphthalimide Chromophore: Design, Structure, and Photophysical Properties

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Table S1: Crystallographic data for complex **1c**.

Empirical formula	$C_{20}H_{19}N_3O_2ClAu$
Formula weight	565.80
Temperature	200(1) K
Wavelength	0.71073 Å
Crystal system	Triclinic
Space group	P -1
Unit cell dimensions	a = 9.3874(2) Å
	b = 9.8339(2) Å
	c = 12.0913(2) Å
	α = 69.669(1)°
	β = 70.888(1)°
	γ = 76.465(1)°
Volume	979.82(3) $Å^3$
Z	2
Crystal size	0.25 x 0.15 x 0.05 mm^3
Density (calculated)	1.918 $g.cm^{-3}$
F(000)	544
Absorption coefficient	7.663 mm^{-1}
Absorption correction	Semi-empirical from equivalents
Min. and max. transmission	0.36 and 0.84
θ range for data collection	2.23° to 30.57°
Index ranges	-13<=h<=13
	-14<=k<=14
	-17<=l<=17
Reflections collected	29802
R(int)	1.87 %

Completeness	99.6 %
Refinement method	Full-matrix least-squares on F^2
Data / parameters / restraints	5978 / 246 / 0
Goodness-of-fit on F^2	1.089
Final R indices [I > 2σ(I)]	R1 = 2.09 % wR2 = 5.08 %
Final R indices (all data)	R1 = 2.40 % wR2 = 5.20 %
Largest difference peak	2.07 e.Å^{-3}
Largest difference hole	-0.59 e.Å^{-3}

Figure S1. Absorption spectrum of the azolium salt **L**^{1}-H$^+$ I$^-$ in CH_3CN versus CH_2Cl_2 solution at same concentration and at room temperature.