

Electronic Supplementary Information (ESI)

Construction of $[\text{Ag}_2\text{X}_2]$ -based complexes from reactions of Ag(I) salts with N-diphenylphosphanylmethyl-4-aminopyridine: isolation, structures, and luminescent properties†

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Fig. S1 Powder XRD patterns of (a) $[\{Ag_2(CN)_2(dppmapy)\} \cdot 0.5CHCl_3]_n$ (**1**); (b) $[Ag_2(dca)_2(dppmapy)_2]_n$ (**2**); (c) $[Ag_2(SCN)_2(dppmapy)_2]_n$ (**3**); (d) $[\{Ag_2Cl_2(dppmapy)_2\} \cdot 0.5MeOH \cdot 0.5CH_2Cl_2]_n$ (**4**); (e) $[\{Ag_2Br_2(dppmapy)_2\} \cdot 2CHCl_3]_n$ (**5**); (f) $[Ag_2I_2(dppmapy)_4] \cdot 3MeOH$ (**6**). Red: simulated from single crystal analysis and experimental; Black: as synthesized.

