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Electronic Supplementary Information (ESI)

A Series of New Silver (I) Pyridone-sulfonates with 1-D "Butterfly" Chain, 2-D Lamellar Network versus 3-D Pillared Layered Framework: Syntheses, Structures and Characterizations

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Figure S1. Solid-state photoluminescent spectra of free ligands **H_2L1** and **H_2L2** at room temperature.

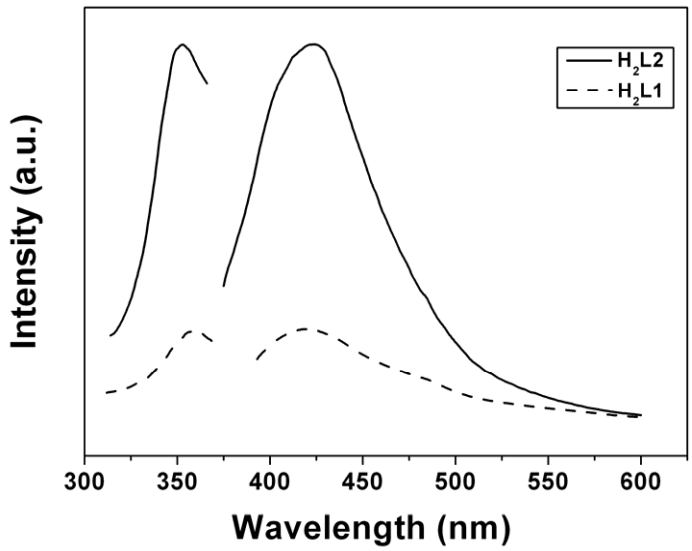

Figure S1. Solid-state photoluminescent spectra of free ligands **H_2L1** and **H_2L2** at room temperature.

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Luminescent Property. Luminescent properties concerning silver(I) sulfonates are rarely explored, despite the fact that many silver(I)-sulfonate compounds have been reported.[1] In this paper, the luminescent behaviors of complexes **2**-**4**, together with the free ligands **H_2L1** and **H_2L2**, were investigated at room temperature in the solid state. As depicted in Figure S1, excitation at 353 nm leads to strong blue-fluorescent emission band at 423 nm for free **H_2L2**, while **H_2L1** exhibits weaker emission bands at 420 nm upon excitation at 360 nm, which has been reported in a recent *communication*.[2] Unfortunately, no clear luminescence was detected for complexes **2**-**4**, which can be attributed to the heavy atom effect[3] due to the coordination of the ligand to a heavy Ag(I) center. Simultaneously, it has been reported that metal ions such as Ag(I) can quench the luminescence.[4]

References

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