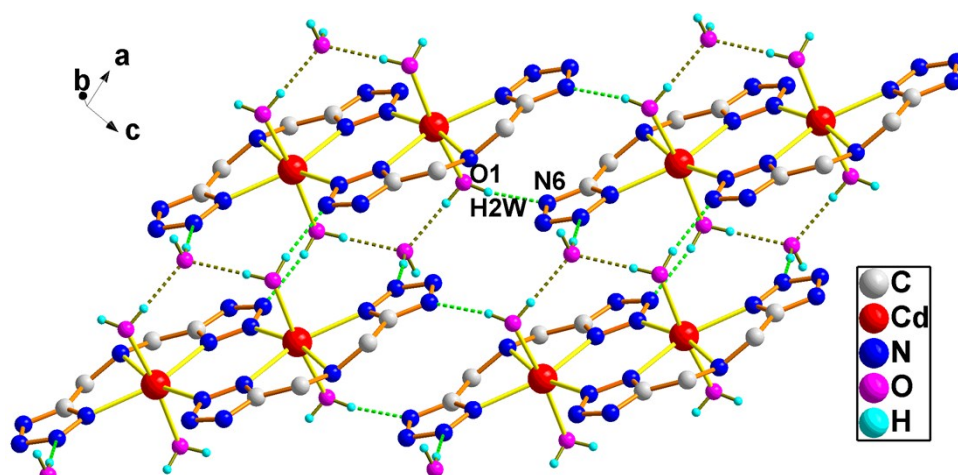
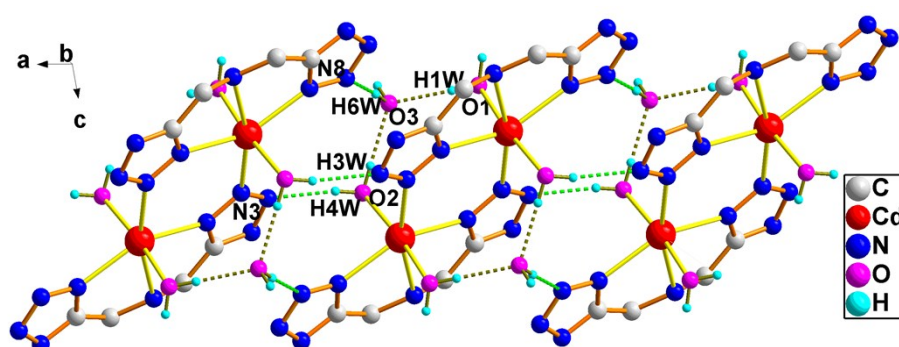


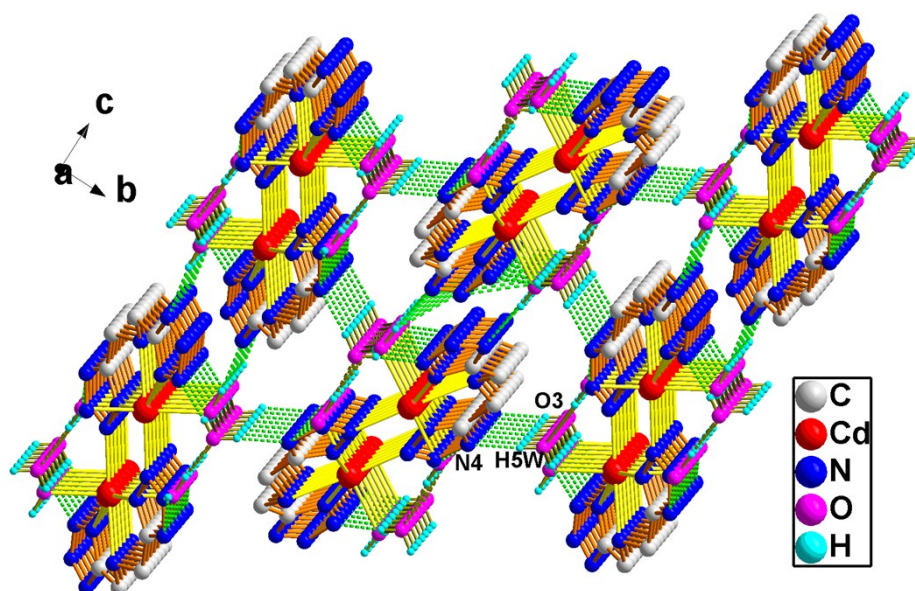
Zinc and Cadmium Complexes Based on Bis-(1*H*-tetrazol-5-ylmethyl/ylethyl)-amine Ligands: Structures and Photoluminescence properties

Duo-Zhi Wang* ^{a,b}, Jian-Zhong Fan^b, Dianzeng Jia^a and Ceng-Ceng Du^b

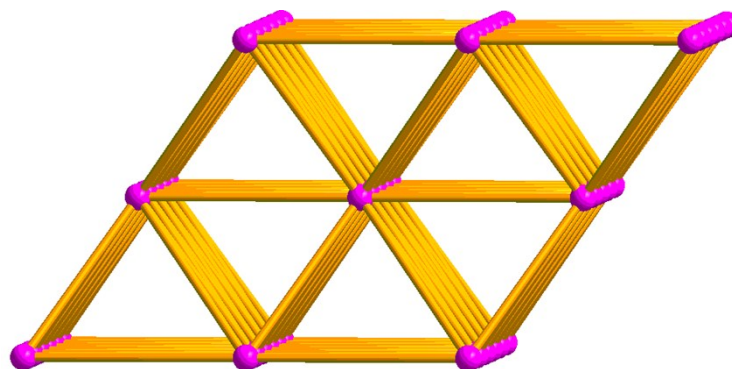
^aKey Laboratory of Energy Materials Chemistry, Ministry of Education, Institute of Applied Chemistry, Xinjiang University, Urumqi, 830046 Xinjiang, P. R. China.

^bCollege of Chemistry and Chemical Engineering, Xinjiang University, Urumqi 830046, P. R. China.



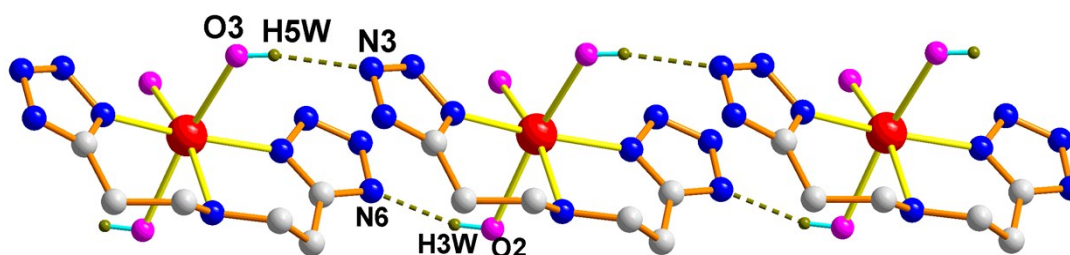


(c)



(d)

Fig. S1. View of (a) the 1D chain formed via the hydrogen-bonding interactions in **4**; (b) the the 2D sheet structure; (c) the 3D supramolecular network formed by hydrogen-bonding interactions; (d) the {3³⁶·4⁴⁸·5⁷} 14-c topological net with the stoichiometry (14-c) (Some of H atoms were omitted for clarity).



(a)

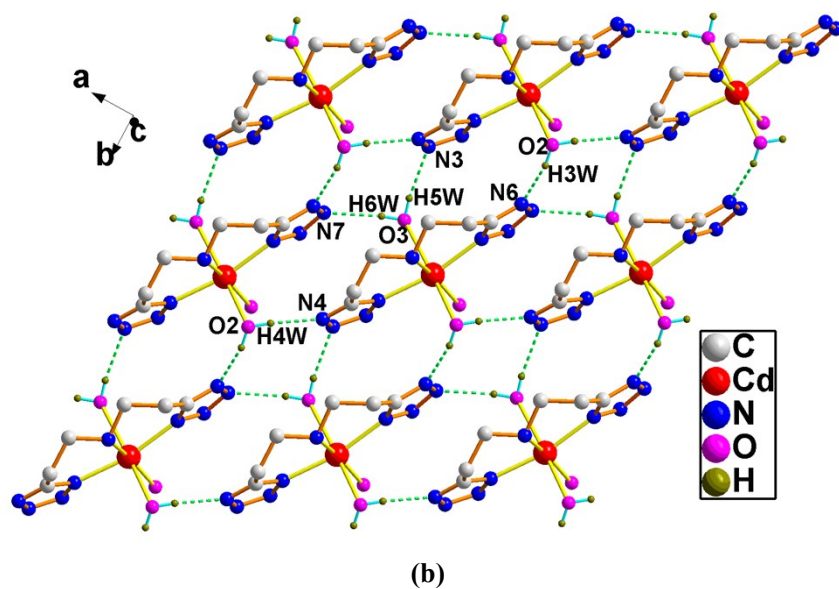
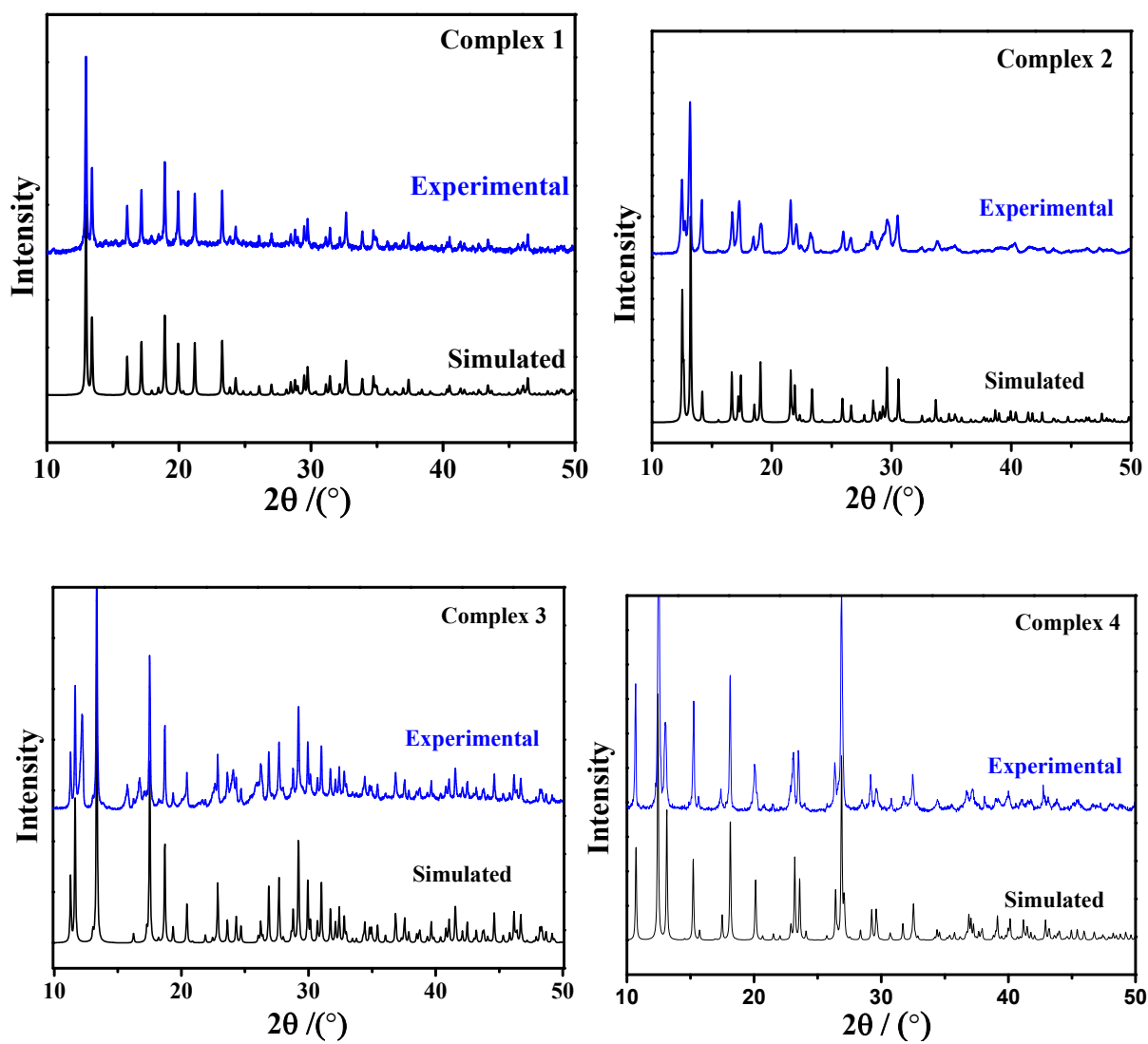


Fig. S2. View of (a) the 1D chain formed by the hydrogen-bonding interactions of **8**; (b) the 2D sheet structure (Some of H atoms were omitted for clarity).



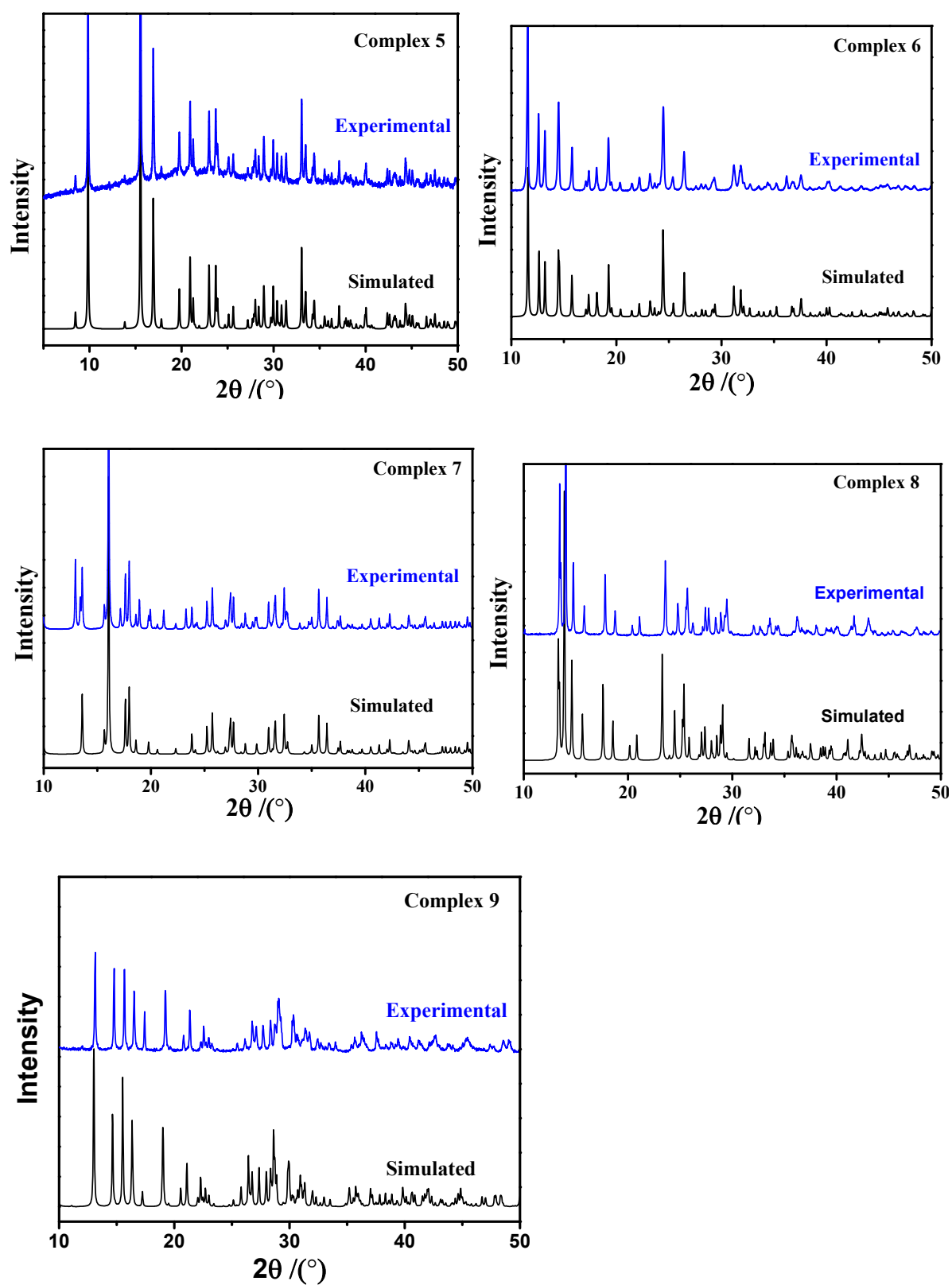


Fig. S3. PXRD patterns of 1–9.

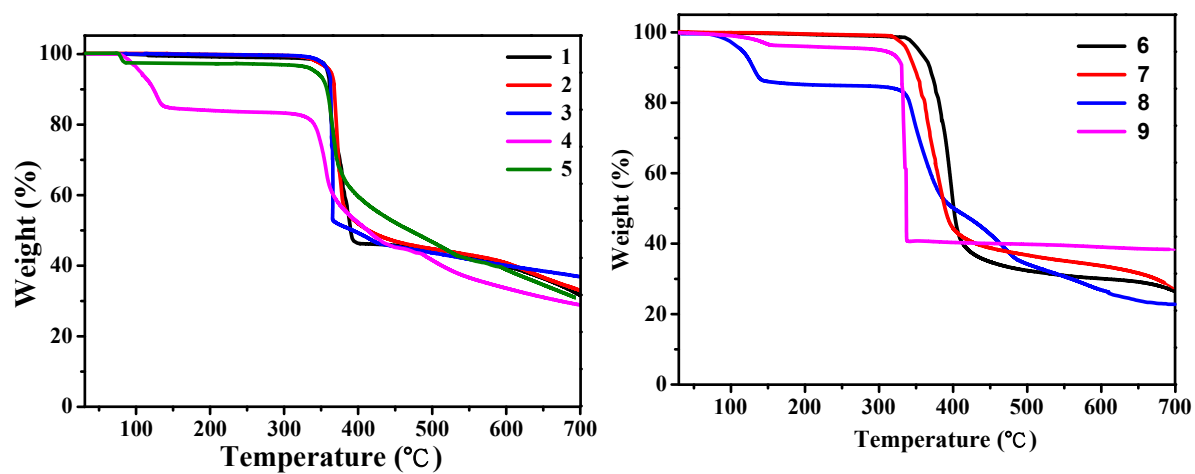
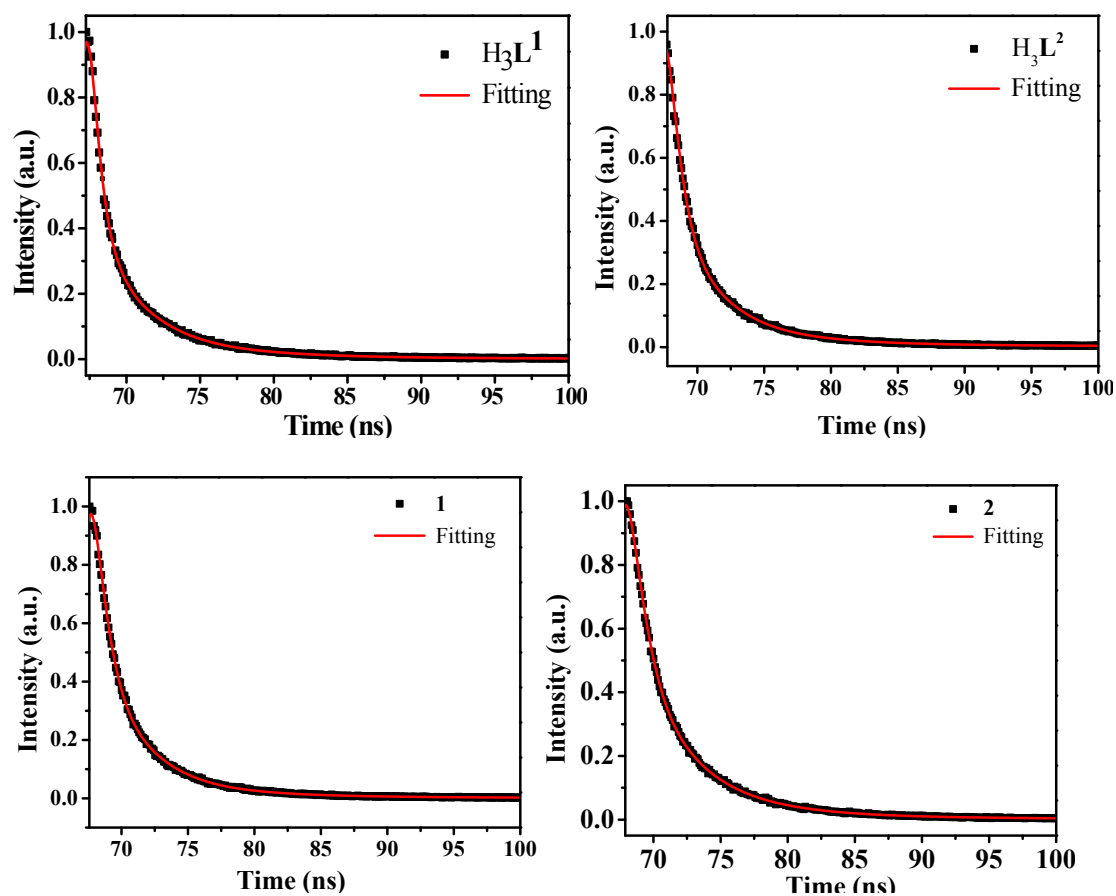


Fig. S4. TGA curves of complexes 1–9.



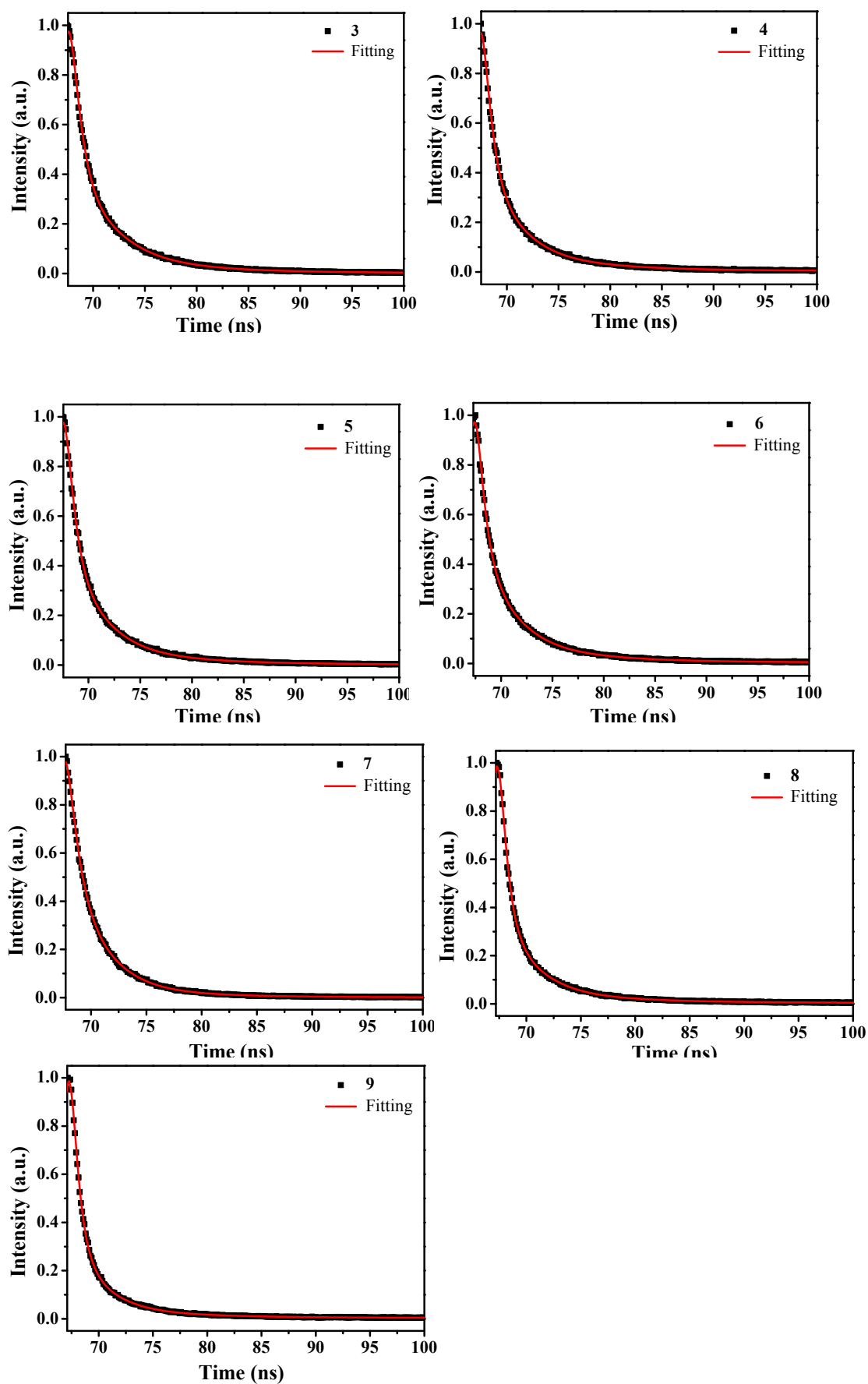


Fig. S5. Fluorescence lifetime measurements for powder samples of H_3L^1 , H_3L^2 , **1–9** at excitation of 340 nm