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Supporting information for article:

Syntheses, crystal structures and Hirshfeld surface analysis of (*Z*)-3-[(3-acetyl-2-hydroxyphenyl)amino]-2-bromoprop-2-enal and a novel Zn^{II} complex

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Figure S1

The infrared spectra of H_2L and **1**.

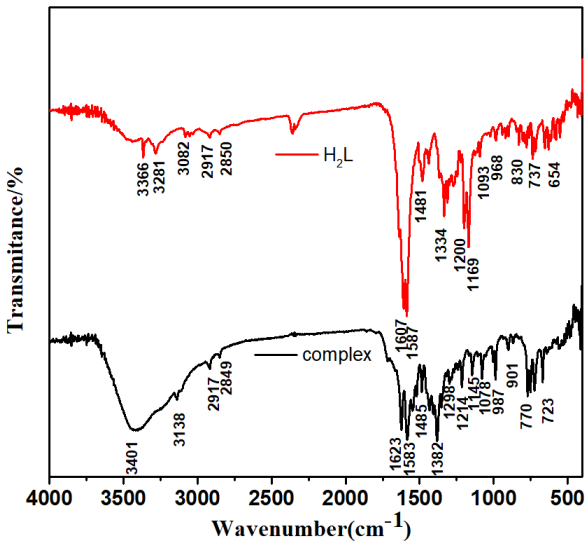

Figure S2

The ^{1}H-NMR spectra of H_2L.

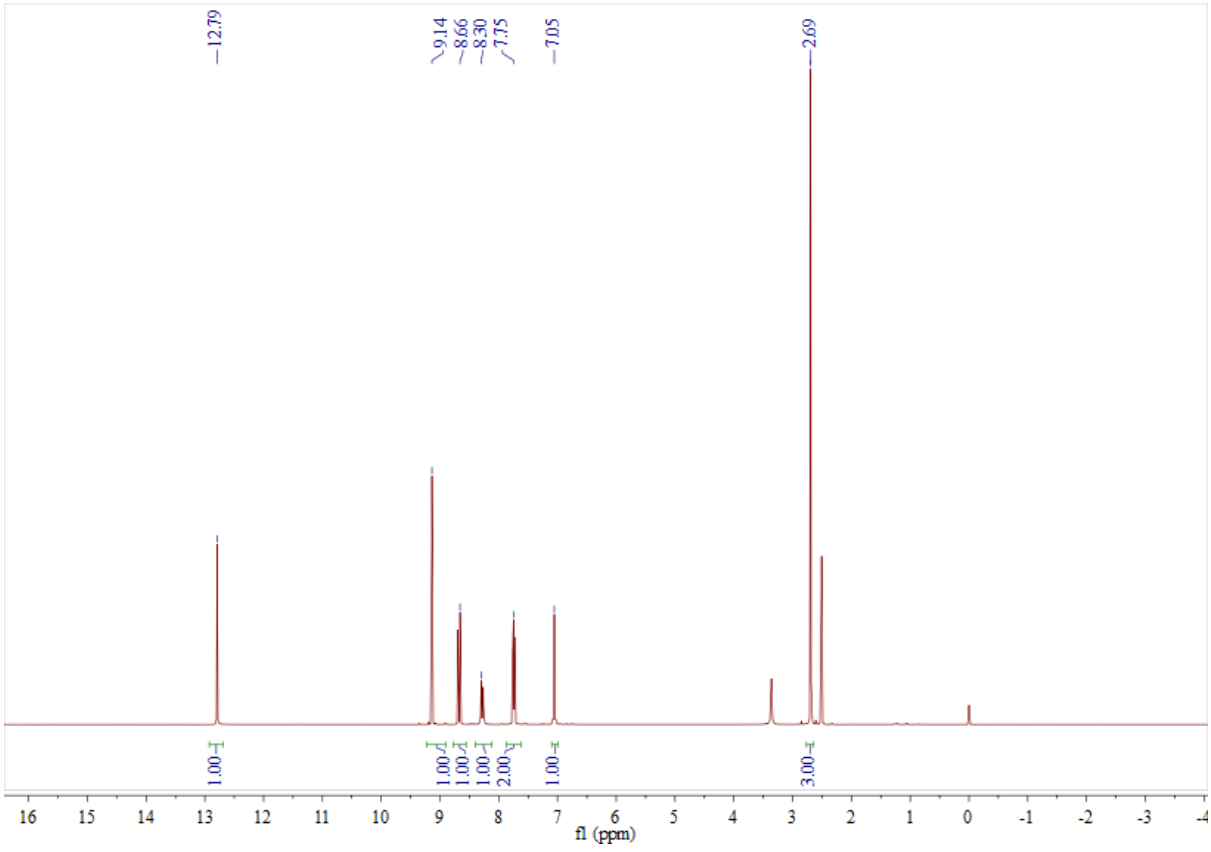

Figure S3

The ^{13}C-NMR spectra of H_2L.

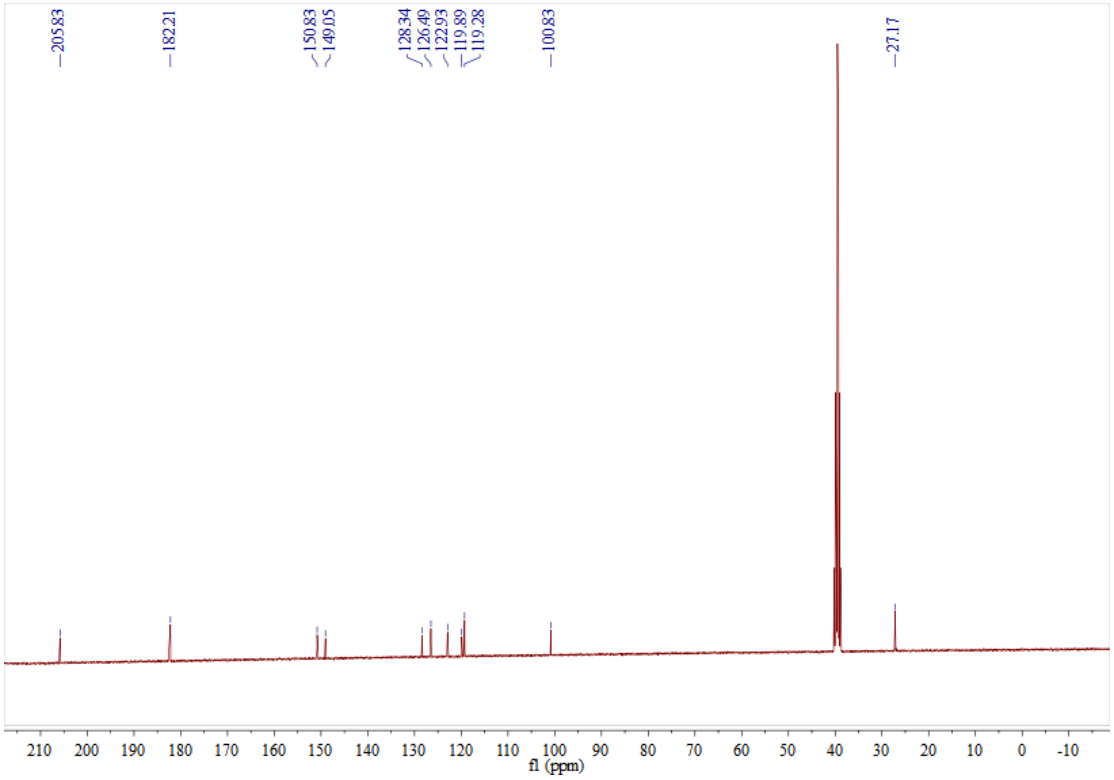

Figure S4

The Calculated UV–Vis spectrum of H_2L.

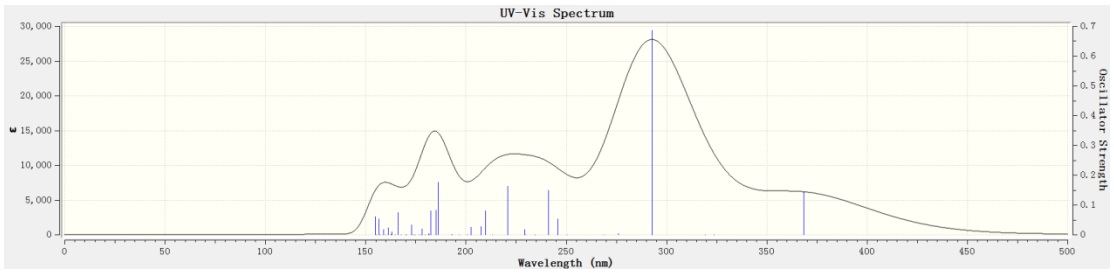

Figure S5

The molecular orbital diagram of H_2L.

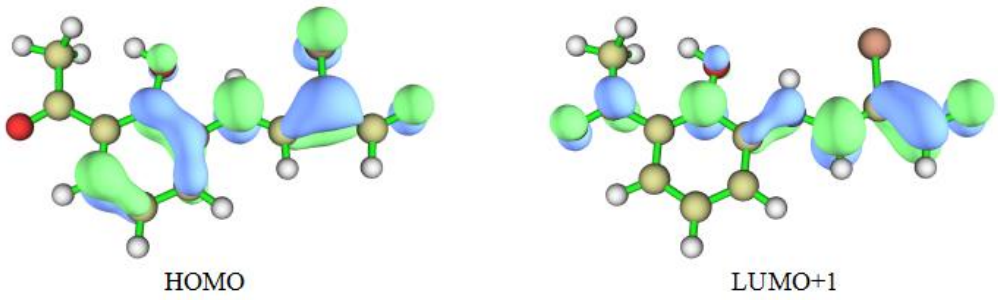

Figure S6

The TG and DTG curves of the complex.

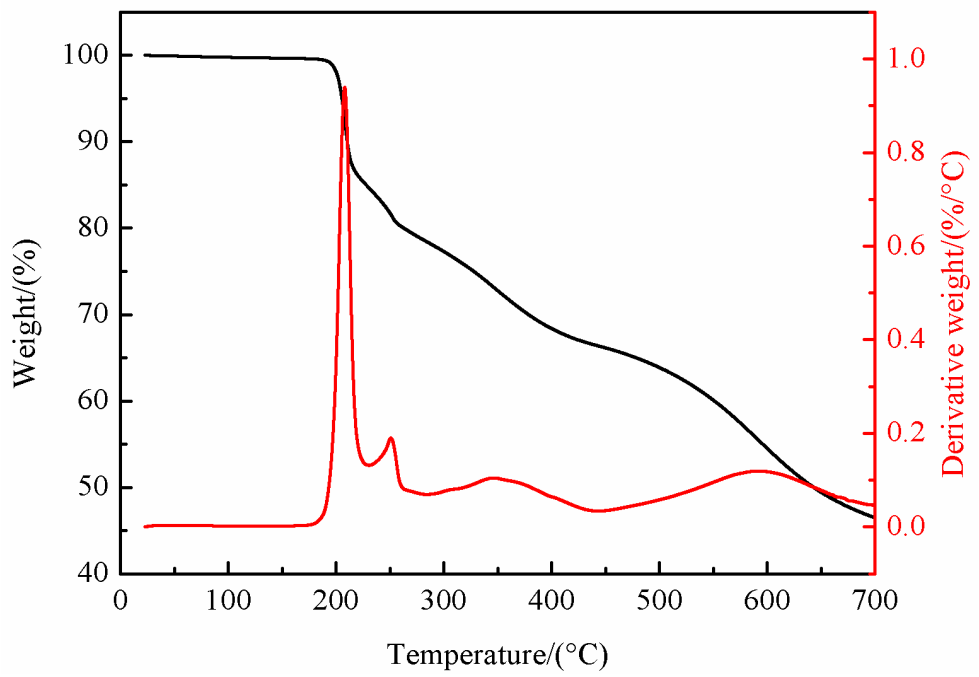

Figure S7

The experimental and simulated XRD curves of the complex.

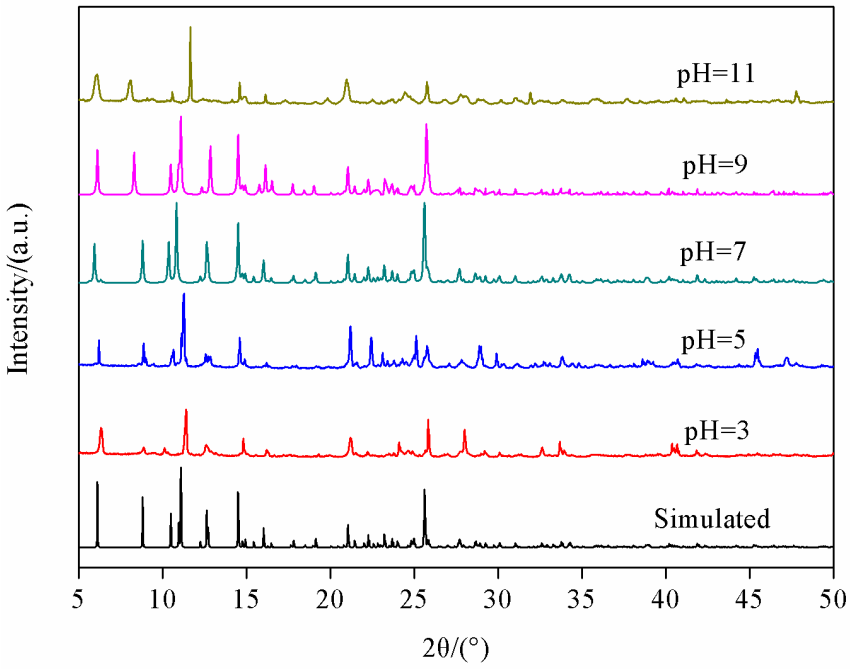

Table S1

Bond order calculation results.

Chemical bond	Laplacian bond order	Mayer bond order
C3-N1	1.694	1.534
C2-C3	1.133	1.154
C4-N1	0.900	0.899

Table S2

Calculation results of coordination configuration.

Zn ions	PP-5	vOC-5	TBPY-5	SPY-5	JTBPY-5
Zn1	31.325	4.740	1.074	2.775	4.146

Zn2	56.461	41.125	36.973	38.884	43.903

Note:PP-5 = Pentagon; vOC-5 = Vacant octahedron; JTBPY-5 = Trigonal bipyramid; SPY-5= Spherical square pyramid; JTBPY-5= Johnson trigonal bipyramid J1