

## Supplementary Material

### A Novel 3D Salen Neodymium Framework with Near-Infrared (NIR) Property

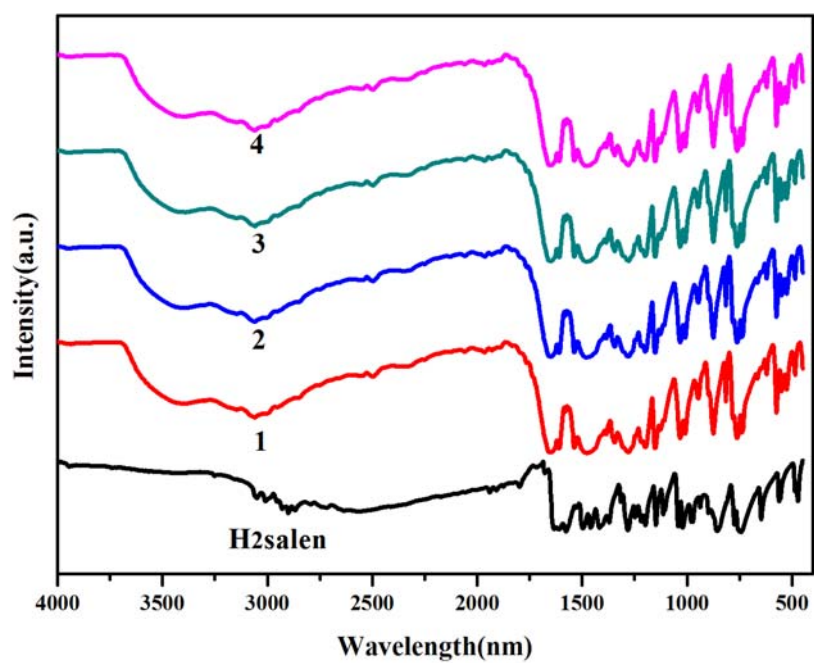
*Shushen Chi,<sup>A</sup> Hongfeng Li,<sup>A</sup> Peng Chen,<sup>A</sup> Ting Gao,<sup>A,B,C</sup> Yu Yang,<sup>A</sup> Wenbin Sun,<sup>A</sup>*

*Guangming Li,<sup>A</sup> Guangfeng Hou,<sup>A</sup> and Pengfei Yan<sup>A,C</sup>*

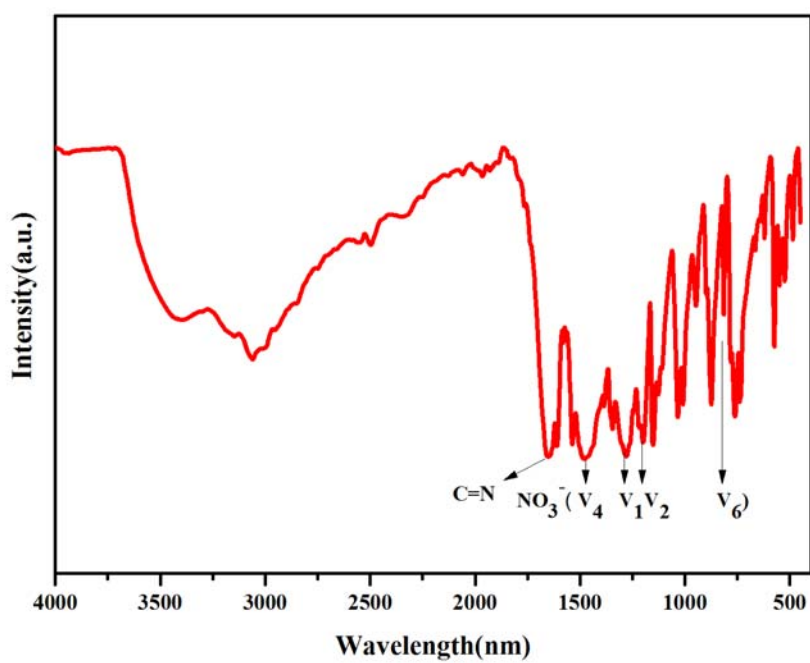
<sup>A</sup>Key Laboratory of Functional Inorganic Material Chemistry (MOE), School of Chemistry and Materials Science, Heilongjiang University, No. 74, Xuefu Road, Nangang District, Harbin 150080, P.R. China

<sup>B</sup>Key Laboratory of Chemical Engineering Process & Technology for High-efficiency Conversion, College of Heilongjiang Province, No. 74, Xuefu Road, Nangang District, Harbin 150080, P.R. China

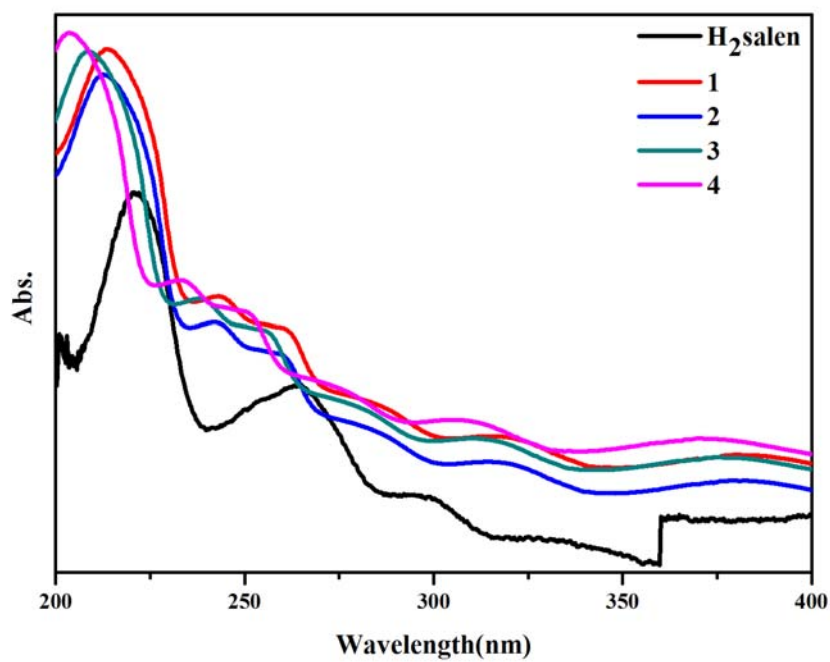
<sup>C</sup>Corresponding authors. Email: gaotingmail@sina.cn (T. Gao); yanpf@vip.sina.com (P.-F. Yan)



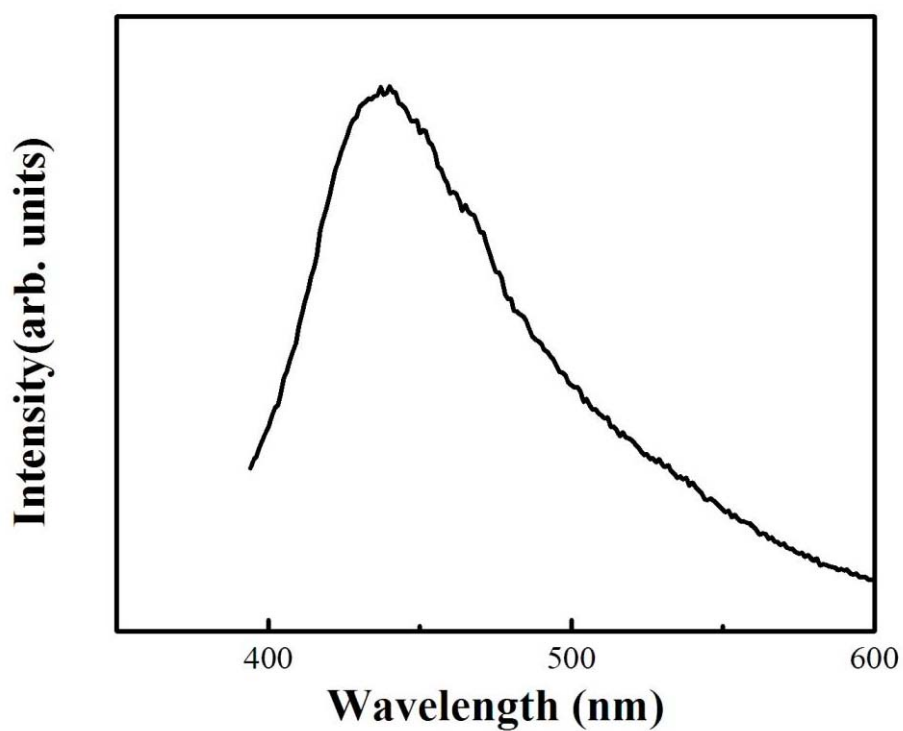
**Fig. S1.** Infrared spectra of complex **1-4** and H<sub>2</sub>salen



**Fig. S2.** The main absorption of complex **1**



**Fig. S3.** Ultraviolet spectra of complex **1-4** and H<sub>2</sub>salen



**Fig. S4.** Visible emission spectrum of complex **1** in solid state at room temperature.