Supporting Information for

Ionic crystals of \{[\text{Ni(phen)}_3]_2\text{Ge}_4\text{S}_{10}\}\cdot\text{xSol}, showing fast solid-state solvatochromism and rapid solvent-induced recrystallization

Wen-Qin Mu, Qin-Yu Zhu, Li-Sheng You, Xu Zhang, Wen Luo, Guo-Qing Bian,* and Jie Dai*

Department of Chemistry & Key Laboratory of Organic Synthesis of Jiangsu Province, Soochow University, Suzhou 215123, P. R. China.

Figures of molecular packing, XRD, UV-vis spectra of starting materials.
Figure S1. The experimental XRD patterns and the simulated patterns from crystal data of compounds 1 (yellow crystals) (a) and 2 (pink crystals) (b).
Figure S2. The molecular packing of 1 (a) and 2 (b) viewed along c axis, showing the co-crystallized solvent molecules in the unit cell.
Figure S3. Structure of compound 2, the uncoordinated solvent molecules and hydrogen atoms of phen were omitted for clarity.

Figure S4. (a) The XRD patterns of compound 1 after immersed in methanol; (b) after two immersing round (immersed in water and methanol alternatively) again; (c) after 4 round again.
Figure S5. Optical diffuse-reflection spectra of the precursor $[\text{Ni(phen)}_3]\text{Cl}_2$ and $(\text{Me}_4\text{N})_4\text{Ge}_2\text{S}_{10}$.