

Electronic Supplementary Information

A fluorescent light-up platform with “AIE + ES IPT” characteristics for multi-target detection both in solution and on paper strip

Ruoyu Zhang,^{‡a} Meng Gao,^{‡b} Shiqiang Bai,^b Bin Liu^{*a,b}

^a *Department of Chemical and Biomolecular Engineering, National University of Singapore, 4 Engineering Drive 4, Singapore 117585, E-mail: cheliub@nus.edu.sg*

^b *Institute of Materials Research and Engineering (A*STAR), 3 Research Link, Singapore 117602*

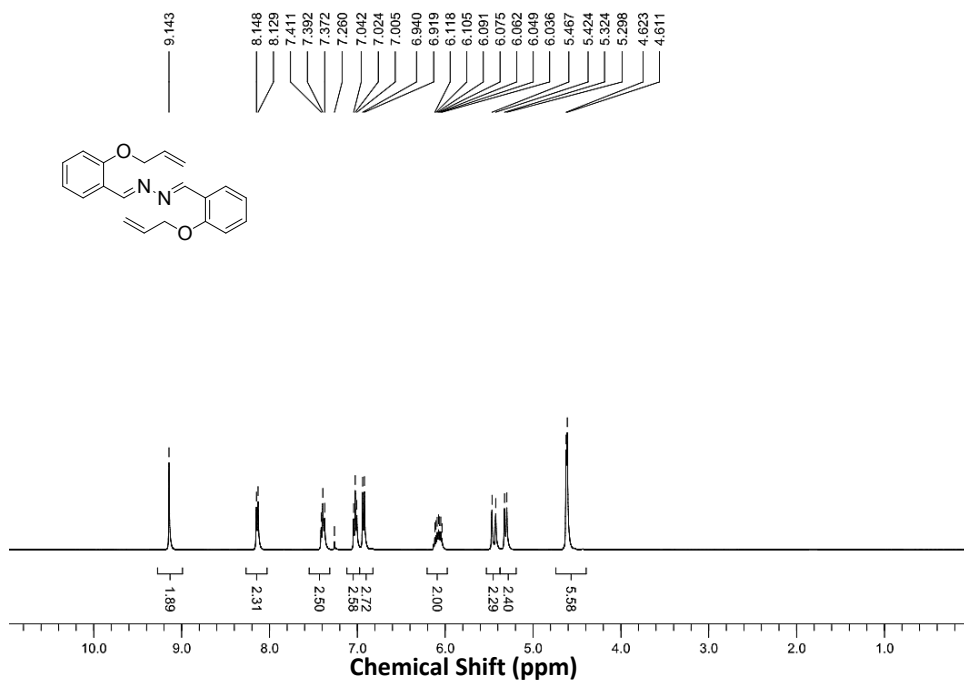


Fig. S1. ¹H NMR spectrum of 1,2-bis((*E*)-2-(allyloxy) benzylidene) hydrazine (AIE-Pd) in CDCl₃.

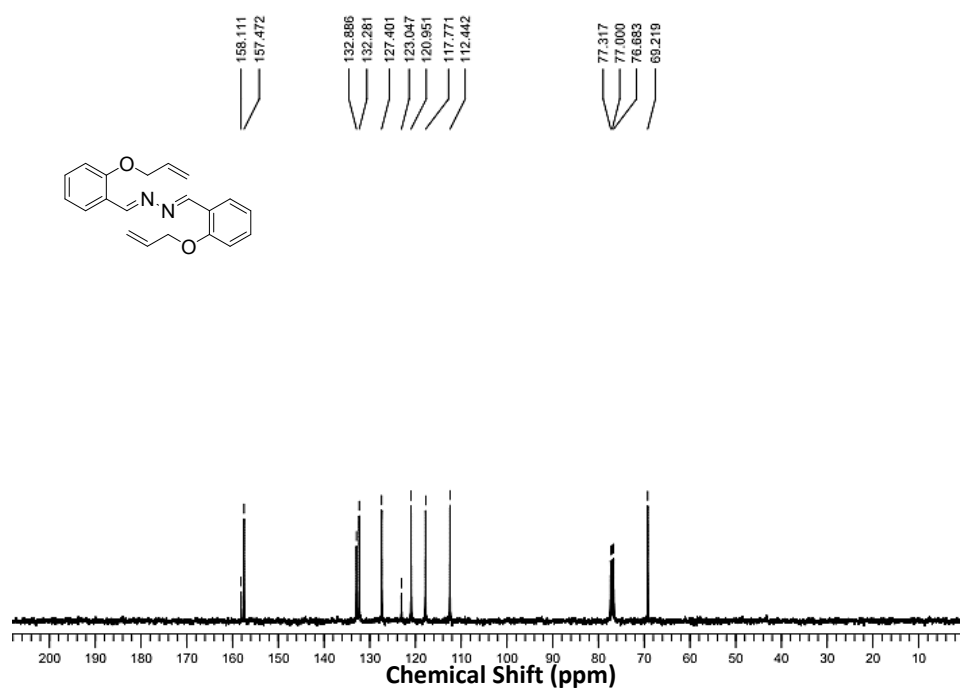


Fig. S2. ¹³C NMR spectrum of 1,2-bis((*E*)-2-(allyloxy) benzylidene) hydrazine (AIE-Pd) in CDCl₃.

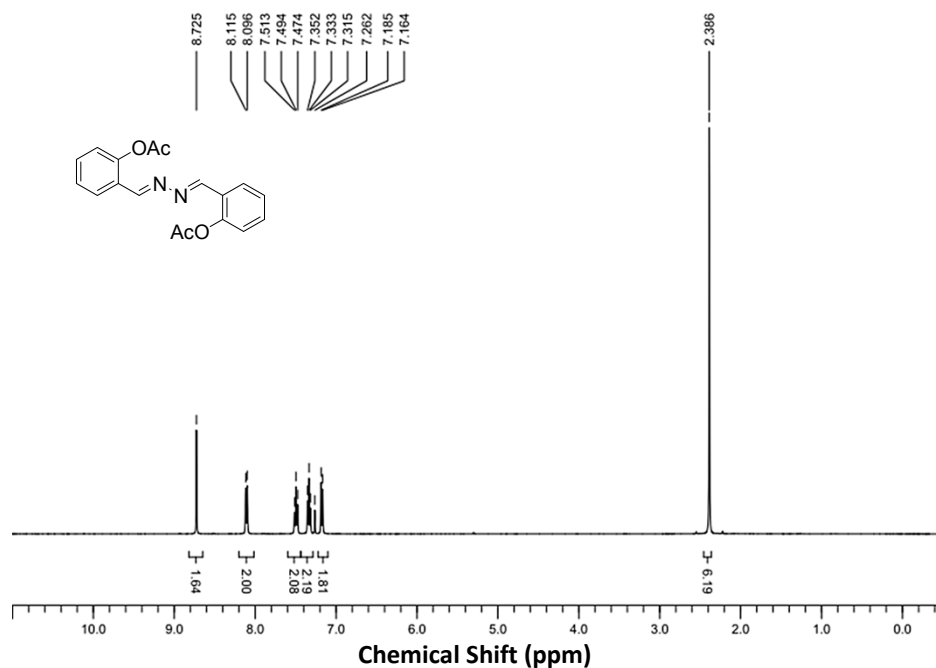


Fig S3. ^1H NMR spectrum of ((1*E*,1'*E*)-hydrazine-1,2-diylidenebis(methanylylidene)) bis(2,1-phenylene) diacetate (AIE-Perorate) in CDCl_3 .

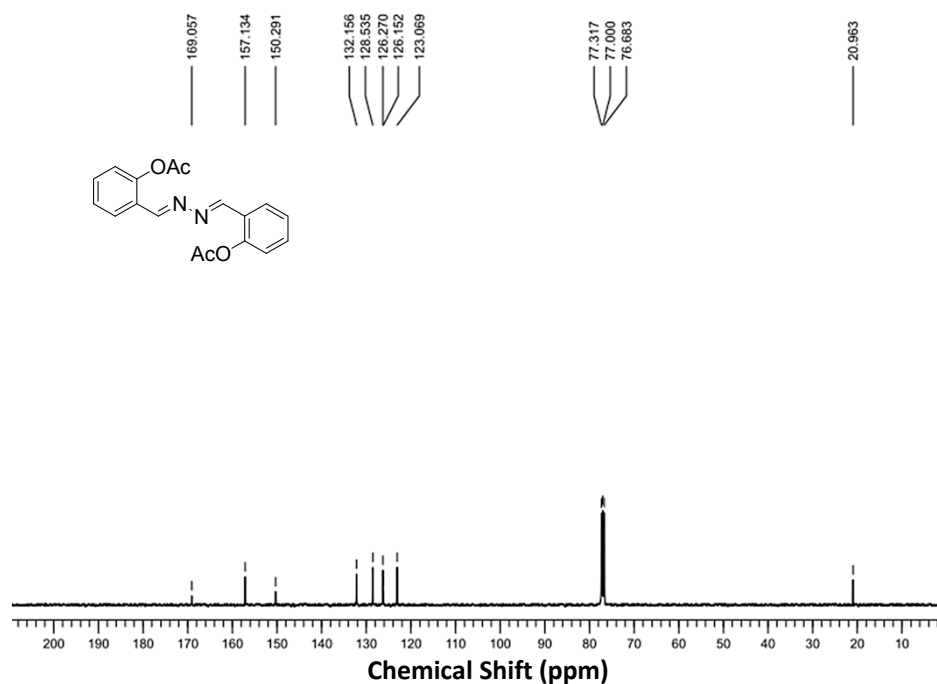


Fig. S4. ^{13}C NMR spectrum of ((1*E*,1'*E*)-hydrazine-1,2-diylidenebis(methanylylidene)) bis(2,1-phenylene) diacetate (AIE-Perorate) in CDCl_3 .

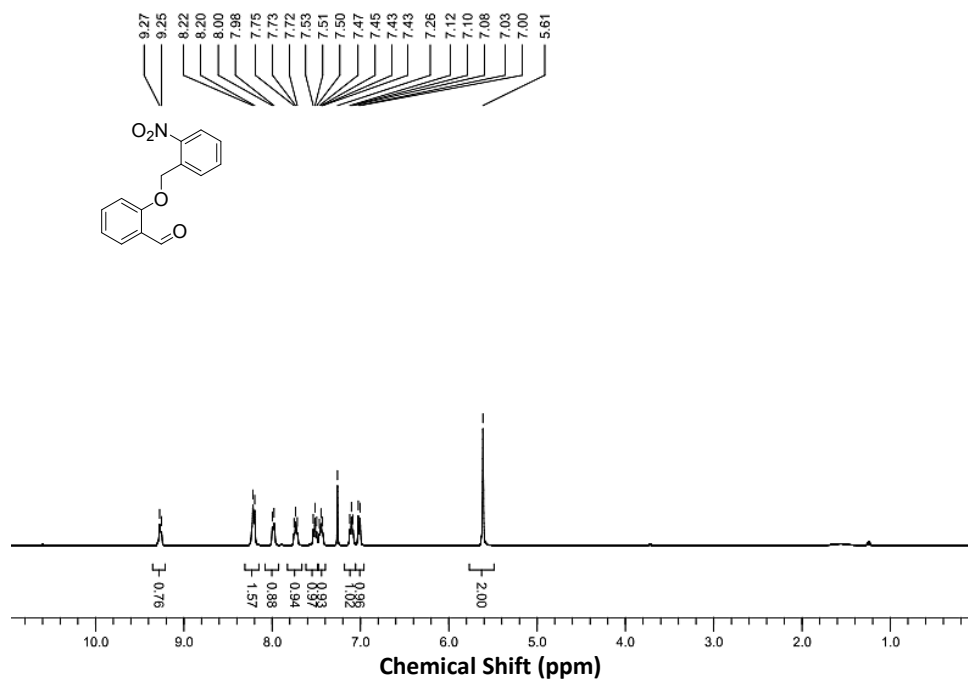


Fig. S5. ¹H NMR spectrum of 2-((2-nitrobenzyl)oxy) benzaldehyde in CDCl₃.

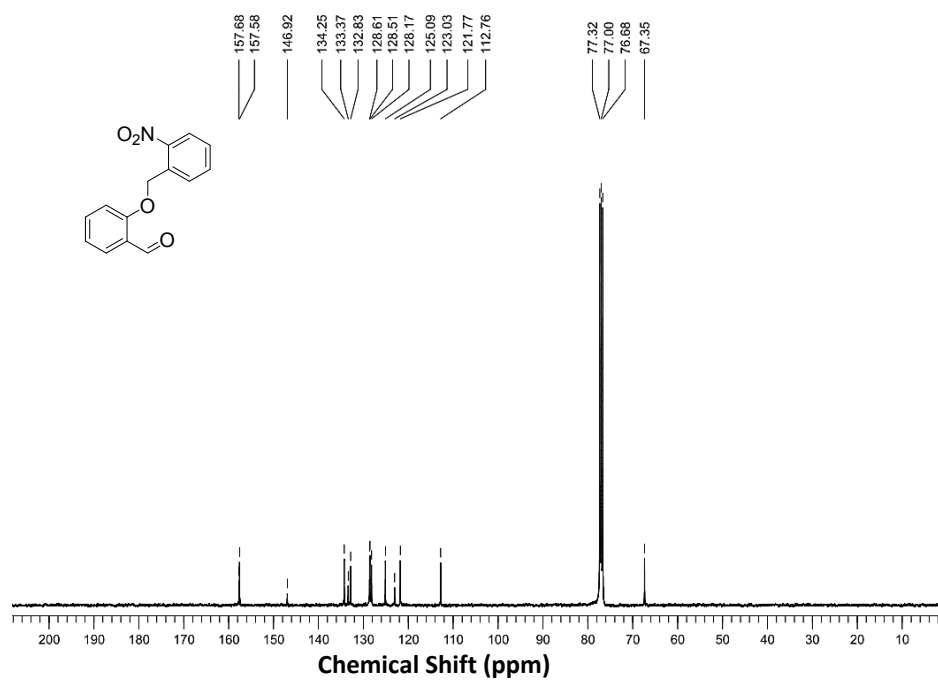


Fig. S6. ¹³C NMR spectrum of 2-((2-nitrobenzyl)oxy) benzaldehyde in CDCl₃.

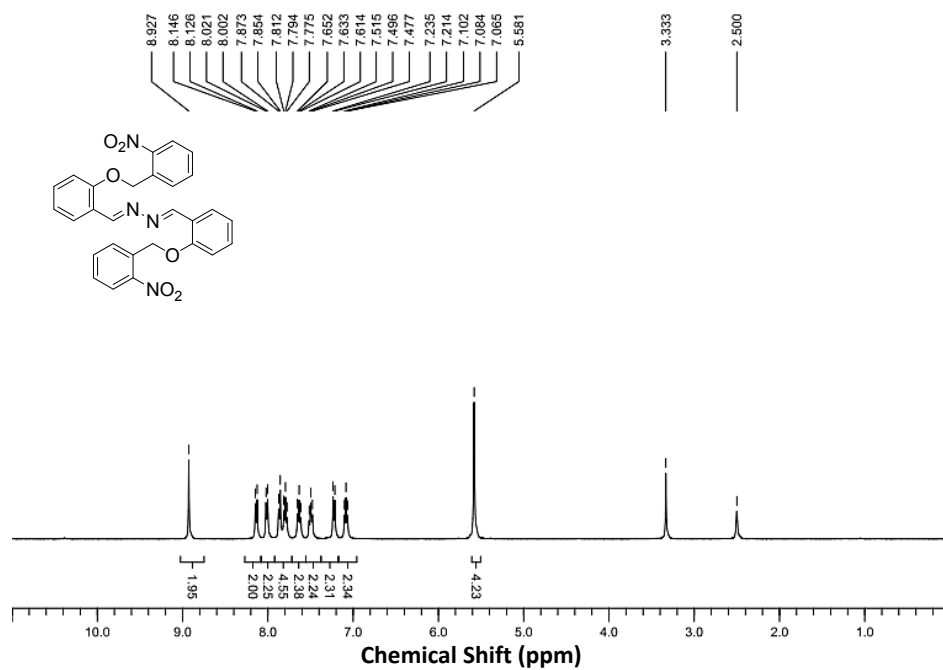


Fig. S7. ¹H NMR spectrum of 1,2-bis((*E*)-2-((2-nitrobenzyl)oxy)benzylidene)hydrazine (AIE-UV) in CDCl₃.

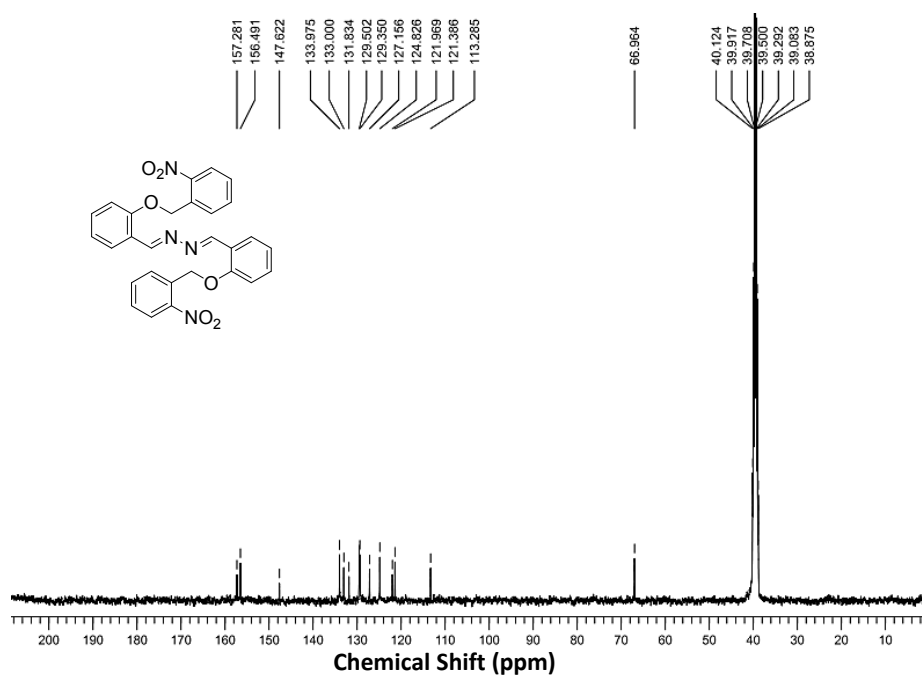


Fig. S8. ¹³C NMR spectrum of 1,2-bis((*E*)-2-((2-nitrobenzyl)oxy)benzylidene)hydrazine (AIE-UV) in CDCl₃.

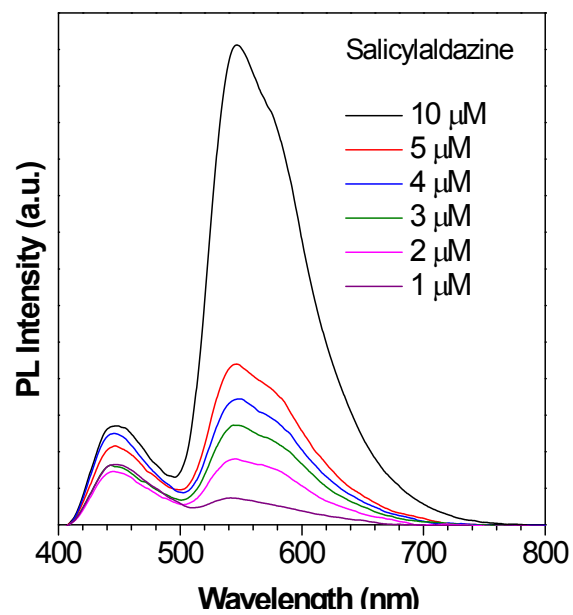


Fig. S9. PL spectra of salicyldazine at different concentrations (1, 2, 3, 4, 5, 10 μM) in THF-water mixture (v/v, 1/99). $\lambda_{\text{ex}} = 365 \text{ nm}$.

Reference:

1. Tang, W.; Xiang, Y.; Tong, A., *J. Org. Chem.* **2009**, *74*, 2163-2166.