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Supplementary Information

Supramolecular Electron Donor-Acceptor Complexes Formed by Perylene Diimide Derivative and Conjugated Phenazines

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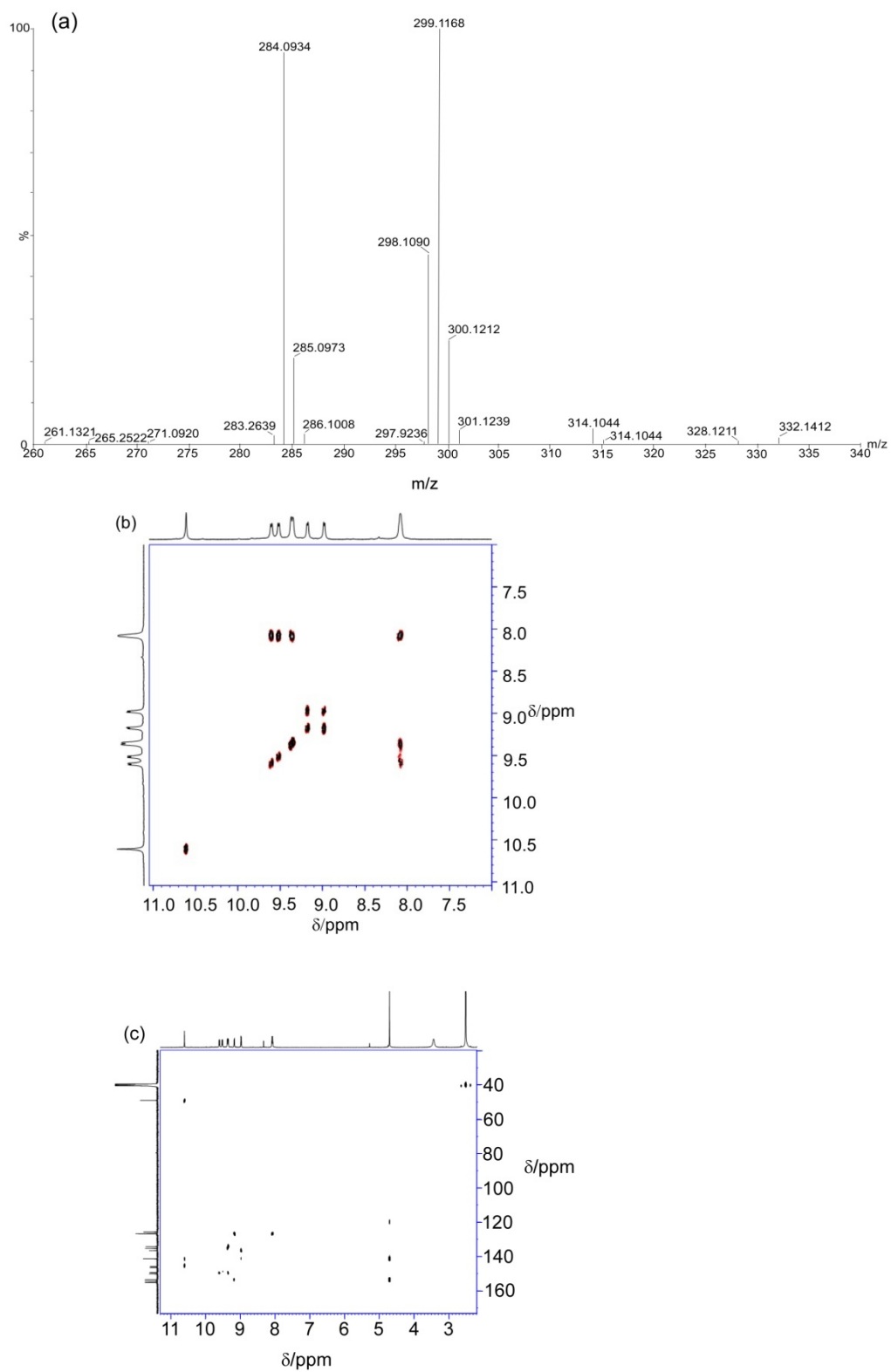


Fig. S1 (a) ESI-HRMS, (b) H-H cosy NMR and (c) HMBC NMR spectra of **3a**.

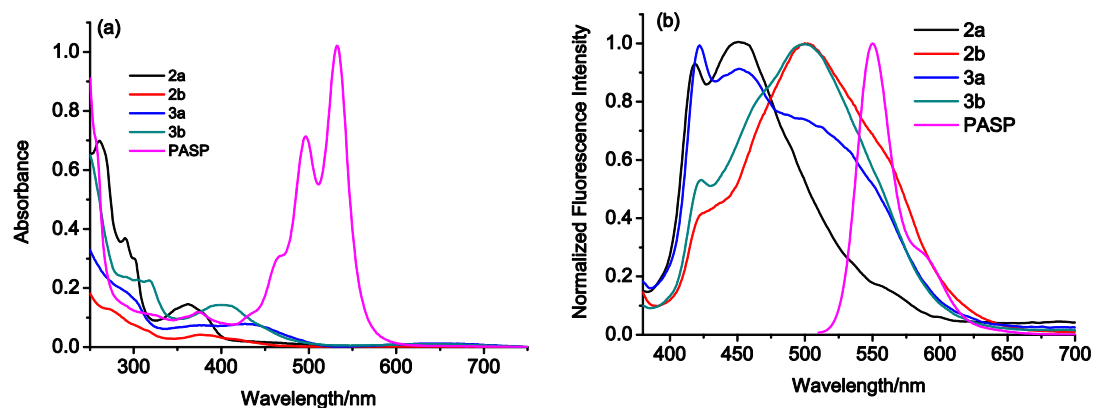


Fig. S2 (a) Absorption and (b) normalized fluorescence emission spectra of **2a**, **3a**, **3b** and PASP in Tris-HCl (10 mM, pH 7.4) ($\lambda_{\text{ex}} = 365$ nm). $[\mathbf{2a}] = [\mathbf{3a}] = [\mathbf{3b}] = [\mathbf{PASP}] = 20 \mu\text{M}$.

Table S1 Photophysical data of PASP and phenazine derivatives in Tris-HCl buffer (10 mM, pH 7.4)

Sample	λ_{abs} (nm)	ε ($\times 10^4 \text{ L.mol}^{-1}.\text{cm}^{-1}$)	$\lambda_{\text{em(max)}}$ (nm)	$\Phi_{\text{F}}^{\text{a}}$
PASP	465, 496, 532	1.65, 4.25, 6.60	550	0.98
2a	261, 290, 301, 362	3.49, 1.84, 1.5, 0.75	455	0.007
2b	271, 376	0.65, 0.02	503	0.10
3a	301, 374, 428, 649	0.81, 0.37, 0.40, 0.06	461	0.014
3b	248, 318, 402, 637	3.29, 1.13, 0.72, 0.05	501	0.016

^a Rhodamine 6G in methanol was used as standard with a fluorescence quantum yield of $\Phi_{\text{F}} = 0.94$.¹

Reference

1. W. Holzer, H. Gratz, T. Schmitt, A. Penzkofer, A. Costela, I. Garcia-Moreno, R. Sastre and F. J. Duarte, *Chem. Phys.*, 2000, **256**, 125-136.