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Benzene-fusing bis(acenaphthoBODIPY)s as a stable near-infrared-selective dye

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Figure S1. UV-vis-NIR (solid line) and fluorescence (dotted line) spectra of 7b (red line) and 10b (blue line) in CH_2Cl_2



Figure S2. UV-vis-NIR (solid line) and fluorescence (dotted line) spectra of 8b (red line) and 11b (blue line) in CH₂Cl₂



Figure S3. UV-vis-NIR (solid line) and fluorescence (dotted line) spectra of 8c (red line) and 11c (blue line) in CH_2Cl_2



Figure S4. UV-vis-NIR (solid line) and fluorescence (dotted line) spectra of 9b (red line) and 12b (blue line) in CH₂Cl₂. Fluorescence of 12b could not be measured due to the wavelength limitation of machine.



Figure S5. Ortep drawing of 7b (top (a) and side (b) views). Solvent molecules and disordered substituents with less occupancy are omitted for clarity.



Figure S6. Ortep drawing of **10b** (top (a) and side (b) views). The structure without solvent molecules $(CH_2Cl_2 \text{ and acetoniteile})$ was refined by the Platon Squeeze technique. Disordered substituents with less occupancy are omitted for clarity.



Figure S7. Ortep drawing of top (a) and side (b) views of **11c** and top view (c) of **17**. Disordered substituents with less occupancies are omitted for clarity.



Figure S8. Ortep drawing of 12b (top (a) and side (b) views). Solvent molecules and disordered substituents with less occupancy are omitted for clarity.



Figure S9. UV-vis-NIR monitoring of 10a in spectroscopic-grade CH₂Cl₂



Figure S10. UV-vis-NIR monitoring of 11b in spectroscopic-grade CH₂Cl₂



Figure S11. UV-vis-NIR monitoring of 1a (CH₂Cl₂) under air in a room light.



Figure S12. UV-vis-NIR and fluorescence spectra of decomposed 1a in CH₂Cl₂



Figure S13. UV-vis-NIR and fluorescence spectra of decomposed 11c after ca. 30 days.



Figure S14. MALDI-TOF MS spectrum of the decomposed sample of 11c (upper case) and simulated spectra of 18 (middle case) and 17 (lower case)



Figure S15. TD-DFT calculation spectra of 15 (blue) and the corresponding mono-(red) and didecomplexed (green) compounds



Figure S16. 1 H (upper) and 13 C (lower) NMR spectra of **9b**



Figure S17. ¹H (upper) and ¹³C (lower) NMR spectra of 7b



Figure S18. ¹H (upper) and ¹³C (lower) NMR spectra of 8b



Figure S19. 1 H (upper) and 13 C (lower) NMR spectra of 8c



Figure S20. ¹H (upper) and ¹³C (lower) NMR spectra of 10b



Figure S21. ¹H (upper) and ¹³C (lower) NMR spectra of 11b



Figure S22. ¹H (upper) and ¹³C (lower) NMR spectra of 11c



Figure S23. ¹H (upper) and ¹³C (lower) NMR spectra of 12b