Supporting Information

for

Dendritic Multiporphyrin Arrays as Light-Harvesting Antennae: Effects of Generation Number and Morphology on Intramolecular Energy Transfer

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(1) MALDI-TOF-MS Spectra (Applied Biosystems model Voyager DE-STR; dithranol as matrix).

Figure S1. MALDI-TOF-MS spectra (dithranol as matrix) of (A) star-shaped (7P_{Zn})_{4}P_{FB}, (3P_{Zn})_{4}P_{FB}, and (1P_{Zn})_{4}P_{FB}, and (B) conically shaped (7P_{Zn})_{1}P_{FB}, (3P_{Zn})_{1}P_{FB}, and (1P_{Zn})_{1}P_{FB}.
(2) $^1$H NMR Spectra (JEOL type GSX-270 Spectrometer; CDCl$_3$)

Figure S2. $^1$H NMR spectra in CDCl$_3$ at 25 °C of (A) star-shaped (7P$_{Zn}$)$_4$P$_{FB}$ (55 °C), (3P$_{Zn}$)$_4$P$_{FB}$ (55 °C) and (1P$_{Zn}$)$_4$P$_{FB}$, and (B) conically shaped (7P$_{Zn}$)$_1$P$_{FB}$ (55 °C), (3P$_{Zn}$)$_1$P$_{FB}$, and (1P$_{Zn}$)$_1$P$_{FB}$. 

S2
(3) Absorption Spectra (JASCO model V-560 Spectrophotometer; THF)

![Absorption Spectra Diagram]

Figure S3. Comparison of electronic absorption spectra in THF at 25 °C of (A) star-shaped \((7\text{PZn})_4\text{PFB}\), \((3\text{PZn})_4\text{PFB}\), and \((1\text{PZn})_4\text{PFB}\) (solid lines) and (B) conically shaped \((7\text{PZn})_1\text{PFB}\), \((3\text{PZn})_1\text{PFB}\), and \((1\text{PZn})_1\text{PFB}\) (solid lines) with those of their non-covalent references \([\text{PZnEXT}] + [\text{PFBCORE}]\); broken lines).