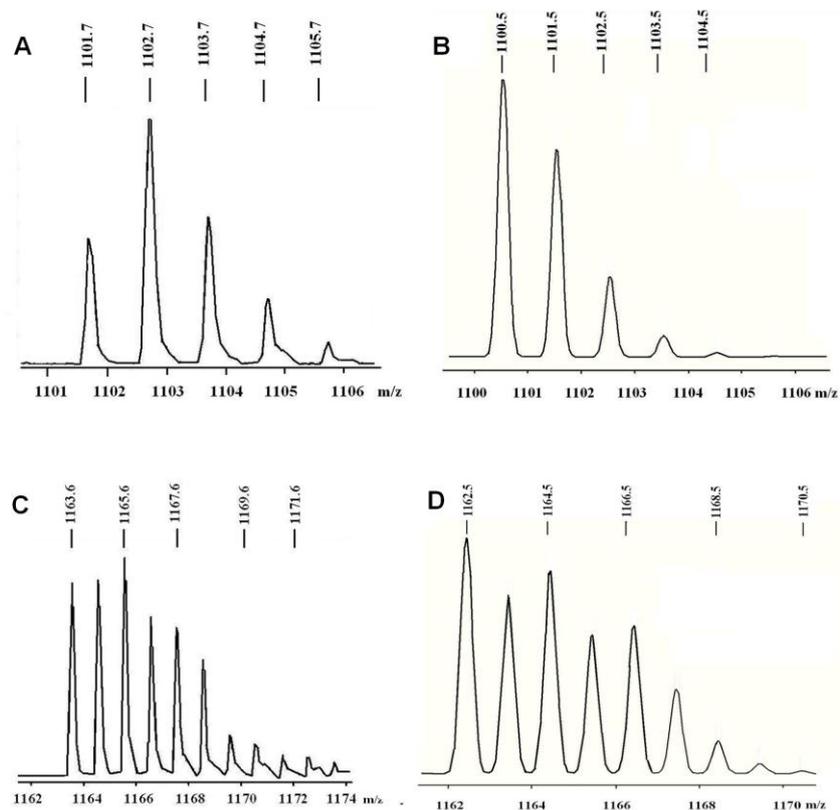


## **Supporting Information**

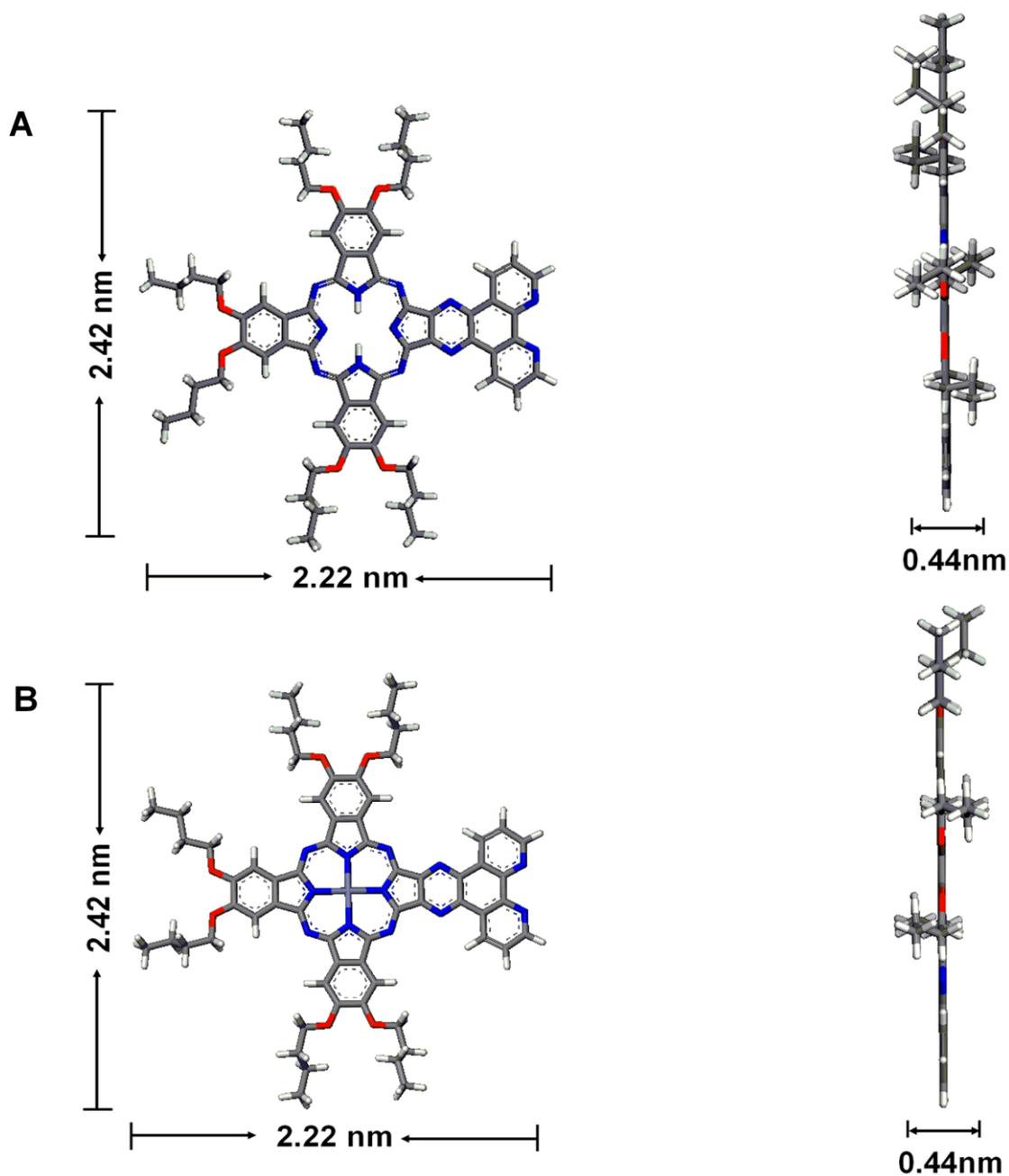
### **Synthesis, Self-assembly, and Semiconducting Properties of Phenanthroline-fused Phthalocyanine derivatives**

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**Fig. S1** (A) Experimental and (B) simulated isotopic patterns for the molecular ion of  $\text{H}_2[\text{Pc}(\text{OC}_4\text{H}_9)_7(\text{dicqn})]$  (1) shown in the MALDI-TOF mass spectrum; (C) Experimental and (D) simulated isotopic patterns for the molecular ion of  $\text{Zn}[\text{Pc}(\text{OC}_4\text{H}_9)_7(\text{dicqn})]$  (2) shown in the MALDI-TOF mass spectrum.





**Fig. S3** The molecular dimension size of both **1** (A) and **2** (B) obtained on the basis of geometry optimization and energy minimized molecular structure using Gaussian 03 program at B3LYP/6-31G(d) level.

**Table S1.** Electronic absorption spectroscopic data for the compounds  $\text{H}_2[\text{Pc}(\text{OC}_4\text{H}_9)_6(\text{dicqn})]$  (**1**) and  $\text{Zn}[\text{Pc}(\text{OC}_4\text{H}_9)_6(\text{dicqn})]$  (**2**) dissolved in  $\text{CHCl}_3$  and their self-assembled aggregates dispersed in methanol.

Compounds	$\lambda_{\text{max}} / \text{nm}$	
	$\text{CHCl}_3$	methanol
<b>1</b>	354, 458, 626, 664, 696	335, 445, 631
<b>2</b>	374, 629, 668, 698	372, 729