

Molecular mechanisms underlying nanowire formation in pristine phthalocyanine

Aadil Pinjari, Deepashri Saraf*, and Durba Sengupta†

CSIR-National Chemical Laboratory,
Dr. Homi Bhabha Road, Pune 411008, India

*E-mail d.saraf@ncl.res.in

†E-mail d.sengupta@ncl.res.in

Table S1: List of different concentrations of phthalocyanine aggregates simulated in terms of number ratios and corresponding molar concentrations.

Number ratio	Concentration (M)
1:50	1106.38
1:60	922.03
1:80	691.46
1:118	468.15
1:125	442.56
1:250	221.28
1:259	213.51
1:817	65.68 (Replicate sets: 4)
1:1069	57.73 (Replicate sets: 4)

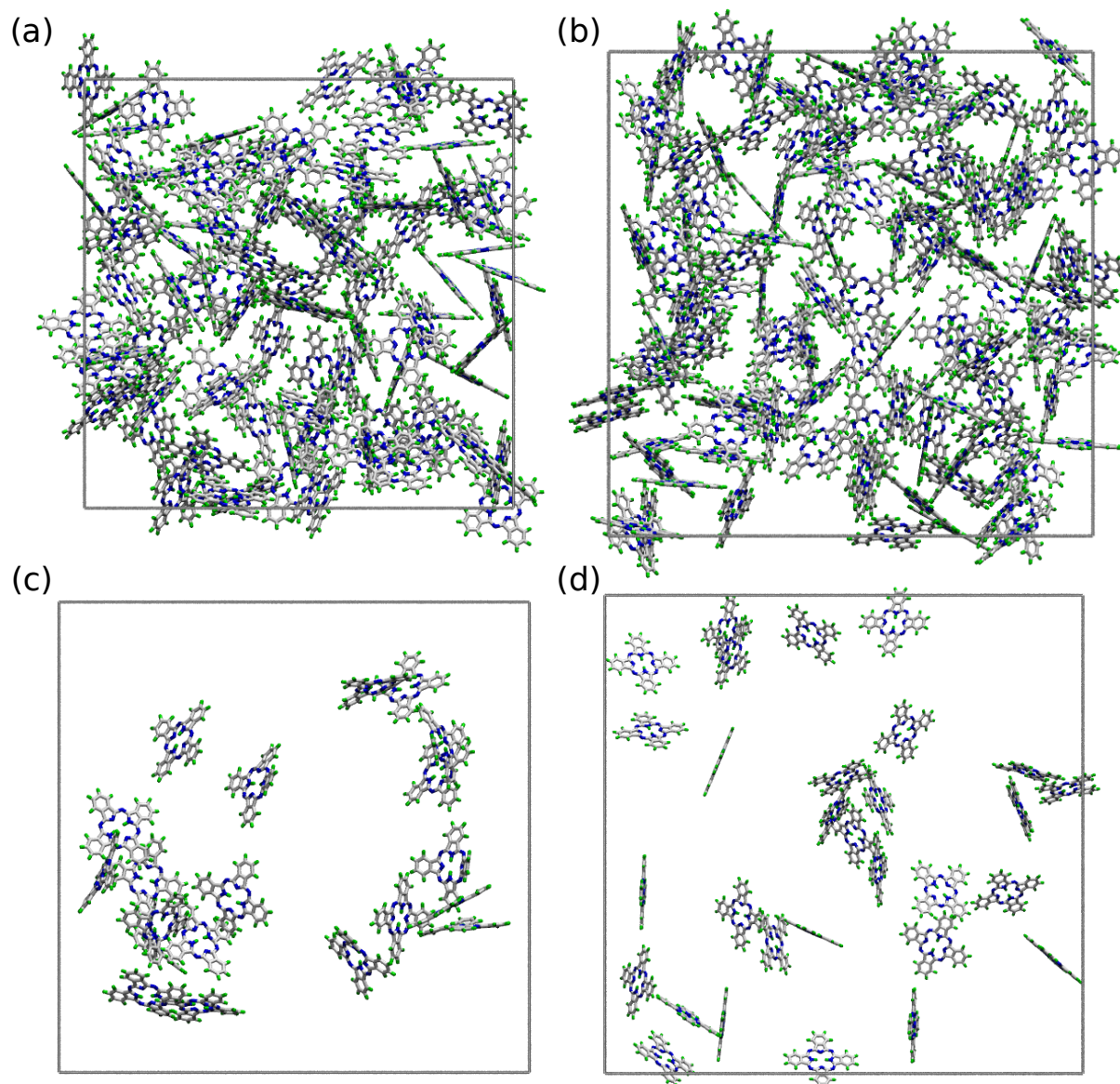


Figure S1: Snapshots of initial random arrangements of phthalocyanine molecules at number ratios (a) 1:60, (b) 1:250, (c) 1:817, (d) 1:1069. The surrounding water molecules are not shown for clarity.

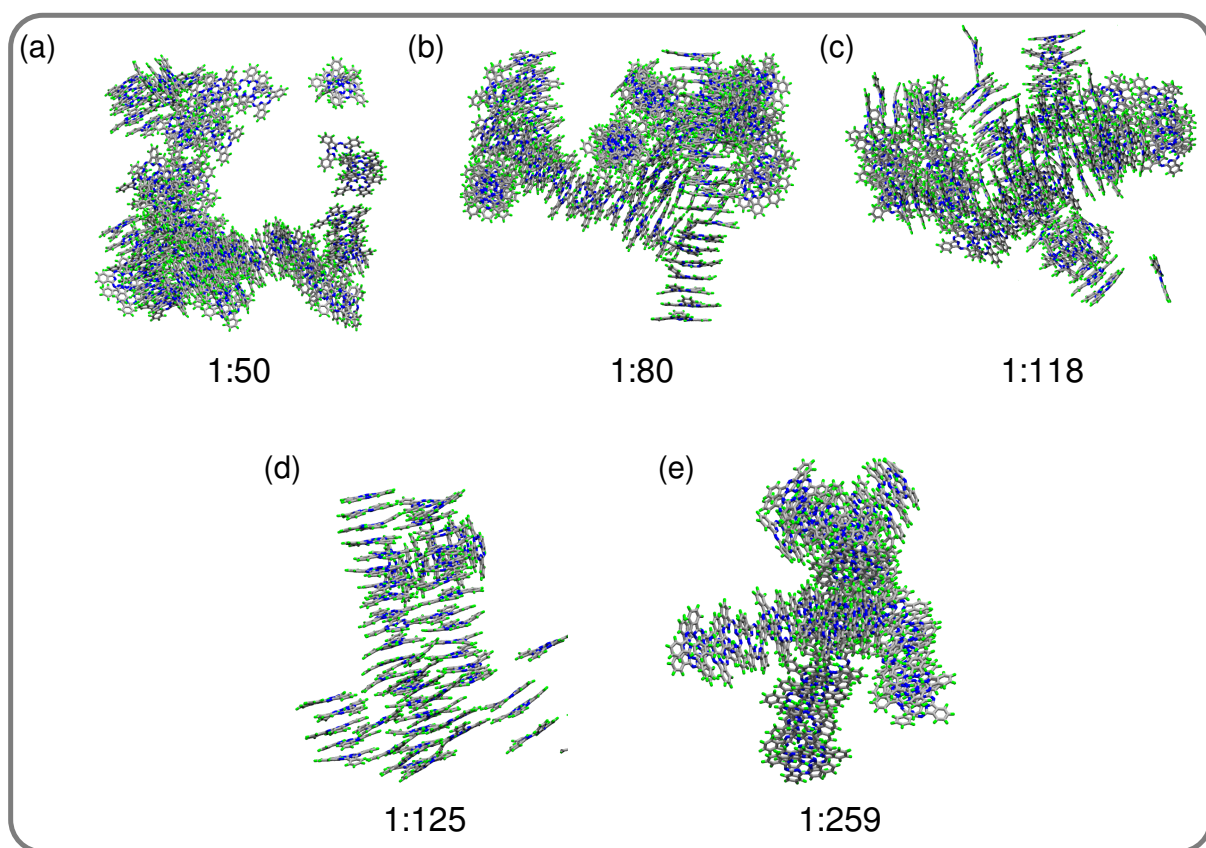


Figure S2: Representative snapshots of phthalocyanine aggregates at number ratios (a) 1:50, (b) 1:80, (c) 1:118, (d) 1:125, (e) 1:259. The surrounding water molecules are not shown for clarity.

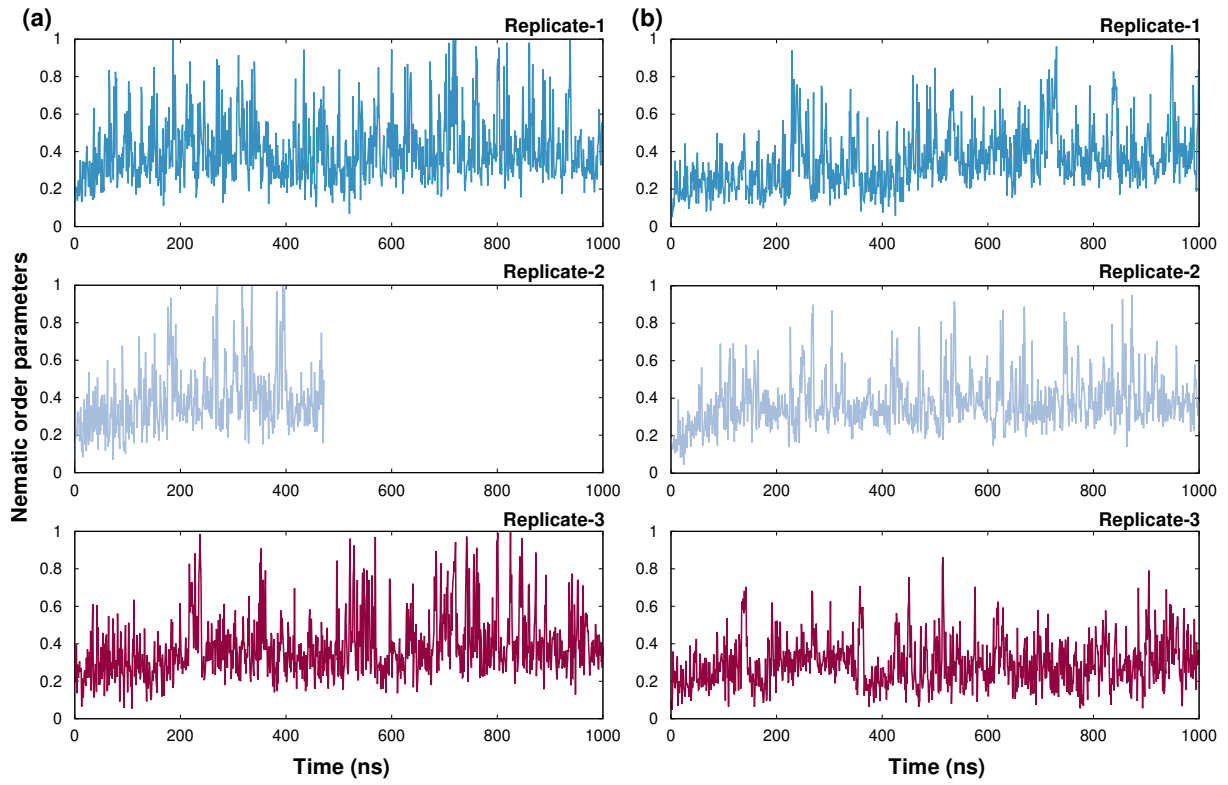


Figure S3: Nematic order parameter of different replicates for number ratios (a) 1:817 and (b) 1:1069.

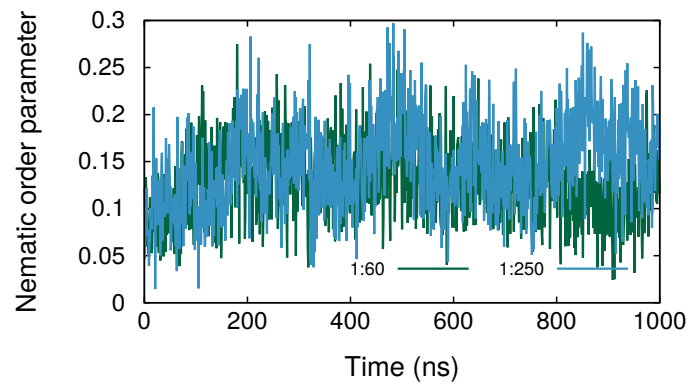


Figure S4: Nematic order parameter for number ratios 1:60 and 1:250.

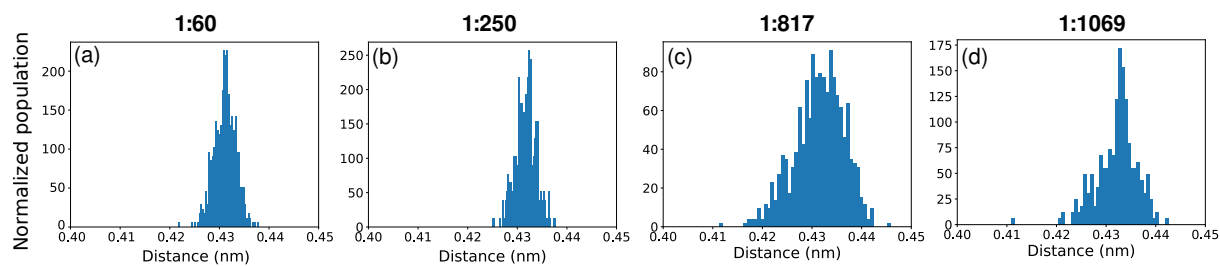


Figure S5: Population histograms of distribution of distances between pairs of neighboring molecules in phthalocyanine self-assemblies of number ratios (a) 1:60, (b) 1:250, (c) 1:817, (d) 1:1069.

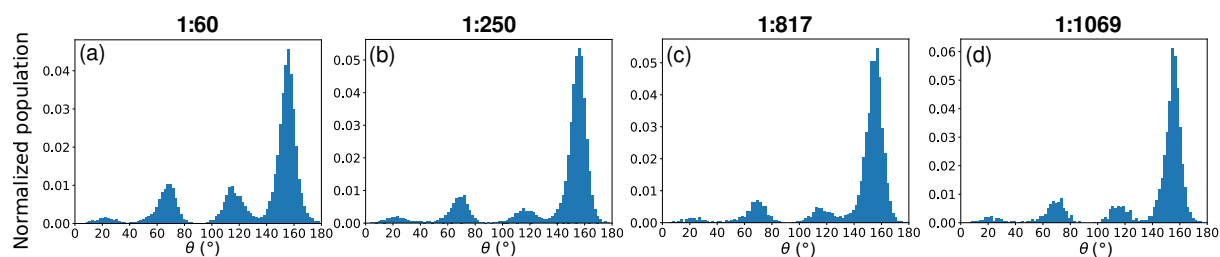


Figure S6: Population histograms of distribution of angles between pairs of neighboring molecules in phthalocyanine self-assemblies at number ratios (a) 1:60, (b) 1:250, (c) 1:817, (d) 1:1069.