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Supplementary Information

- Movie 1. The *C-shaped* configuration: Video of the *C-shaped* configuration.mpg. The relevant parameters are $r_d = 8.1$ nm and I = 0.5M.
- Movie 2. The *folded S-shaped* configuration: Video of the *folded S-shaped* configuration.mpg. The relevant parameters are $r_{\rm d} = 4.5$ nm and I = 0.01M.
- Movie 3. The *double C-shaped* configuration: Video of the *double C-shaped* configuration.mpg. The relevant parameters are $r_d = 4.5$ nm and I = 1.0M.