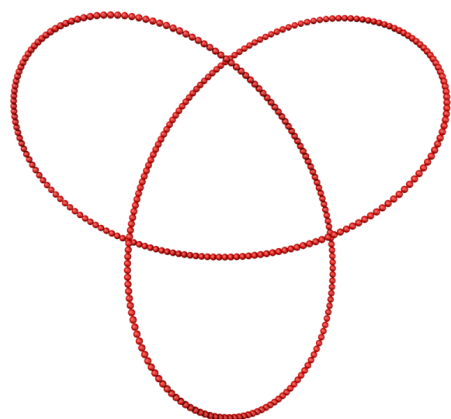


Supplementary Material

A



B

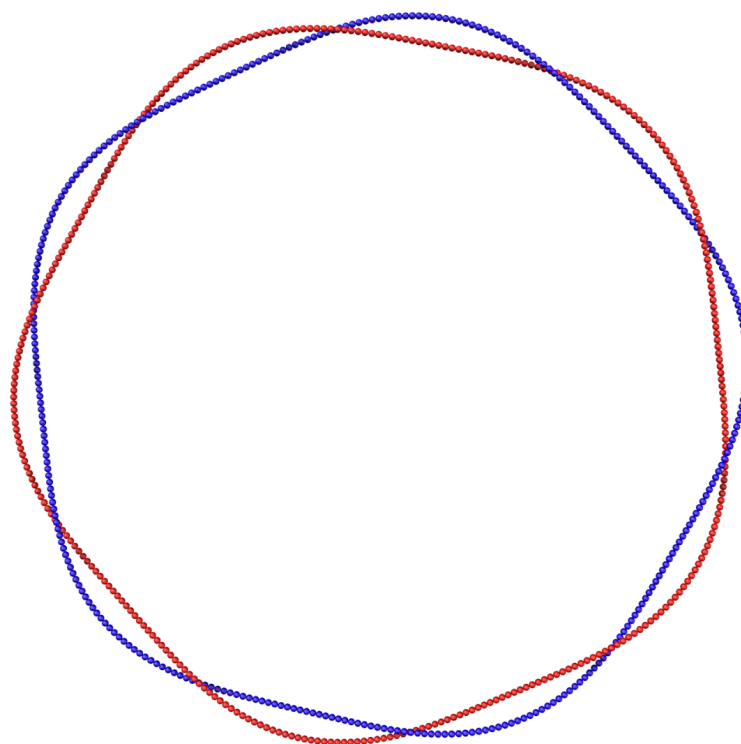


Figure S1. Initial configurations of right-handed trefoil knot with the topological notation 3_1 (A), and of a torus type, right-handed catenane with the topological notation 10_1^2 (B). In Metropolis Monte Carlo simulations the configurations were equilibrated assuming that each ring was supercoiled to $\Delta Lk = -16$.

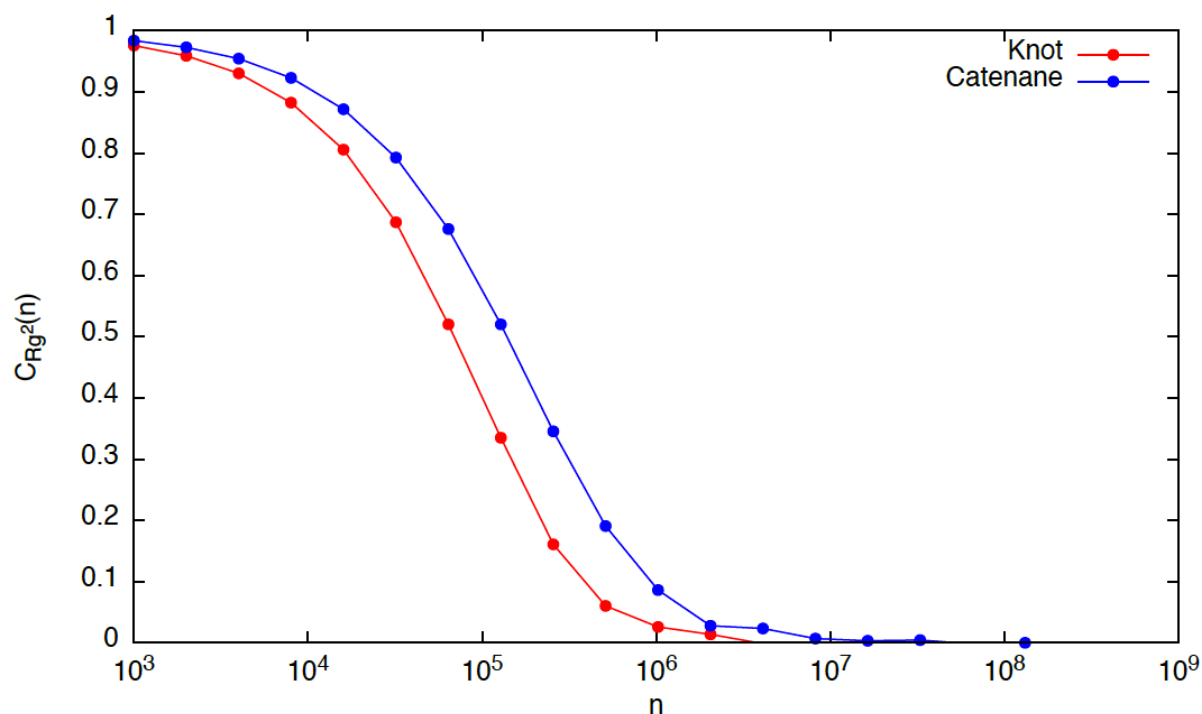


Figure S2. Autocorrelation function of the squared radius of gyration as a function of block size n for supercoiled knotted chains (red) and supercoiled catenated chains (blue).