Editorial

Writing an article “to be open access published”

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Prof. Ashrafuzzaman

Dr. Ashrafuzzaman works in the domain of biophysics. Stability of the structures of biomolecules, their independent random existence, coexistence with other molecules, and their complex biological structures in biological environments, especially in cellular environments (cell membrane, cellular interior, and exterior regions where various proteins exist) are often energy-based biophysical problems. Going beyond simple biochemical approaches, we apply various biophysical techniques to not just observe things or measure the effects but also try to understand the hidden causes of responses, underlying mechanisms, and aftermath effects using response theory-based science. We apply all three common methodologies of investigations: theory, experiments, and computation to penetrate deep into the problems. Our techniques are dedicated mainly to first finding the equilibrium structures, calculating the energies corresponding to specific structures, then raising the understanding of phenomenological structural transitions between various energy landscapes that represent various functional aspects. For more contact at mashrafuzzaman@ksu.edu.sa.

Figure demonstrates the cell membrane diffusion of nanoparticles that is explored biophysically and biochemically in Dr. Ashrafuzzaman’s laboratory.