

Jayaraman, N., 2016, “2016 Nobel Prize in Chemistry: conferring molecular machines as engines of creativity”, *Curr. Sci.* *111*, 1289 – 1292.

Chemists are armored with imagination of molecules, their structures and functions, without necessarily demanding a high level of wherewithal sophistications to execute the same. This author had the privilege of having this first-hand experience in the laboratories of Professor Sir J. F. Stoddart, at University of Birmingham, UK, and at UCLA, USA, for over 5 years. However, in addition to molecular designs with in-built functions, higher order organizations of the molecules are becoming even more important in order to enable the characteristics molecular functions to be realized at the macroscopic level. This year Nobel Prize theme has recognized the space that the molecular machines, built through bottom-up approaches, are offering, in the constant quest to generate very high energy efficient systems in a paradigm-shifting manner.