F. SATO LAB.

[Innovative Simulation of Bio and Nano Molecules]

Center for Research on Innovative Simulation Software

http://www.ciss.iis.u-tokyo.ac.jp, http://satolab.iis.u-tokyo.ac.jp

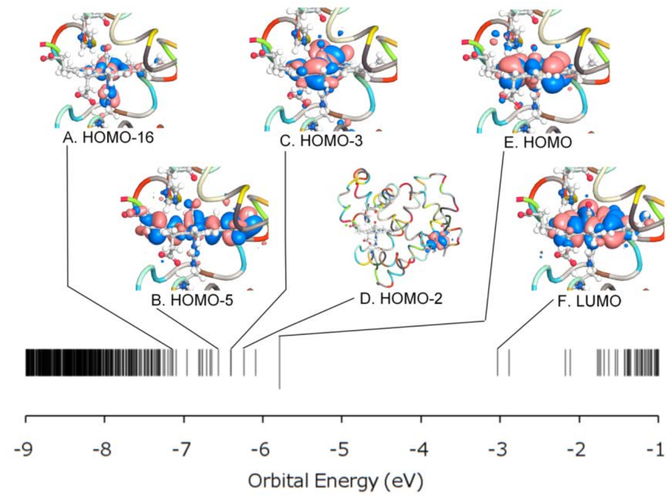
Engineering/ Mechanical Engineering

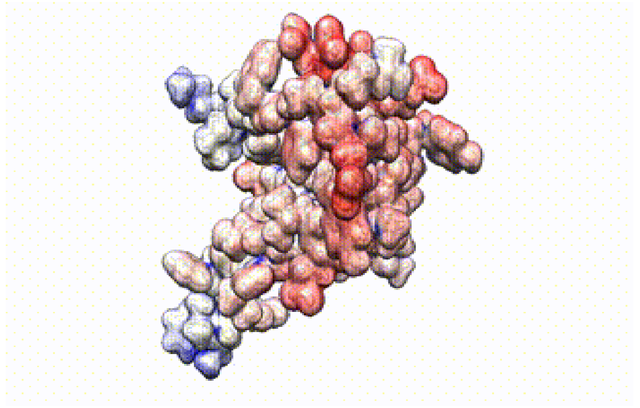
Computational Biomolecular Science

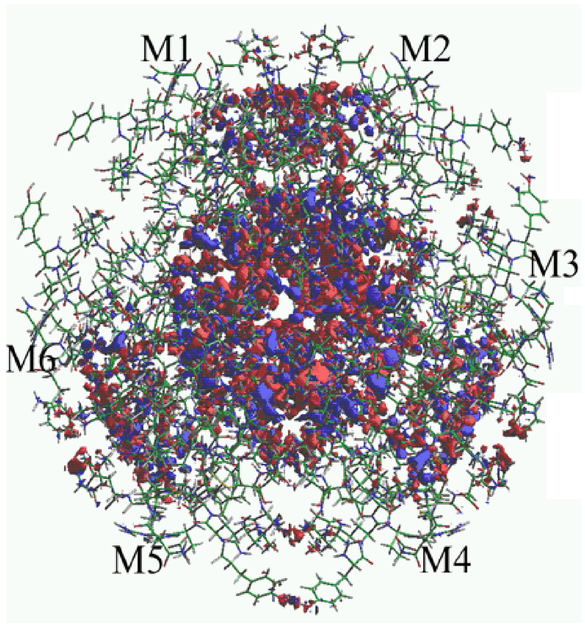
All-Electron Calculations on Proteins by ProteinDF

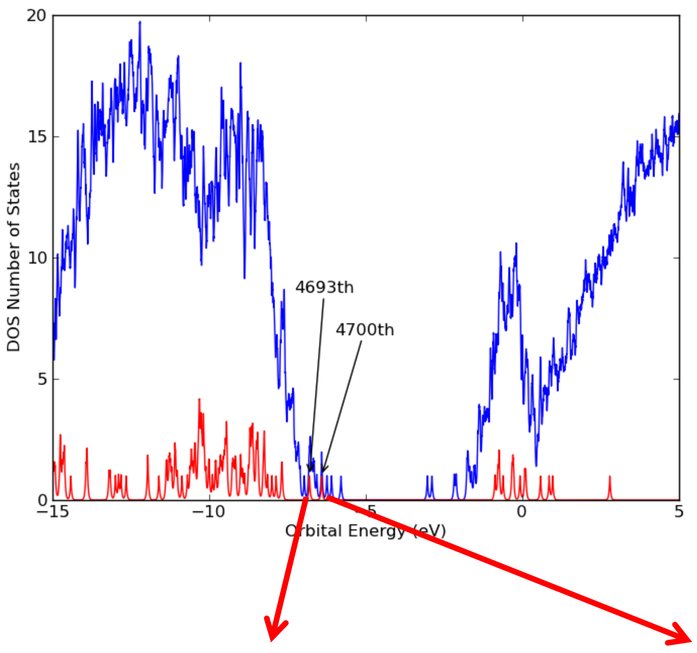
The new quantum chemical calculation software “ProteinDF” has been developed, where molecular orbitals of all electrons of nanoscale molecules such as proteins are computable.

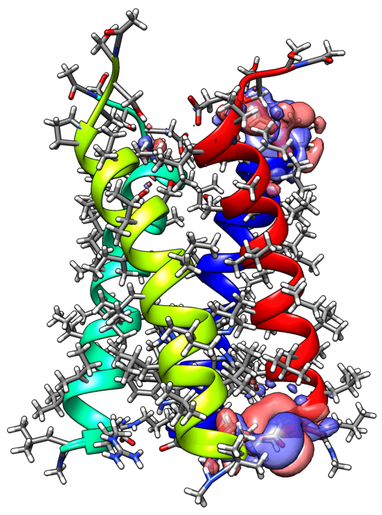
Based on the software, a practical simulation system that precisely analyzes nanoscale molecular reactions is now constructed for the applied research such as design of new enzymes, medicines, and materials as well as for the fundamental researches.

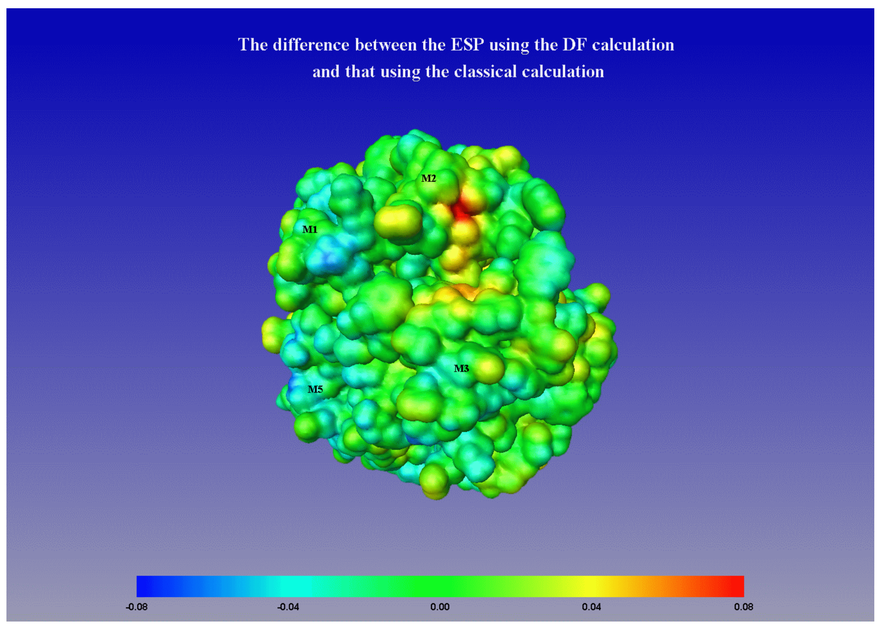


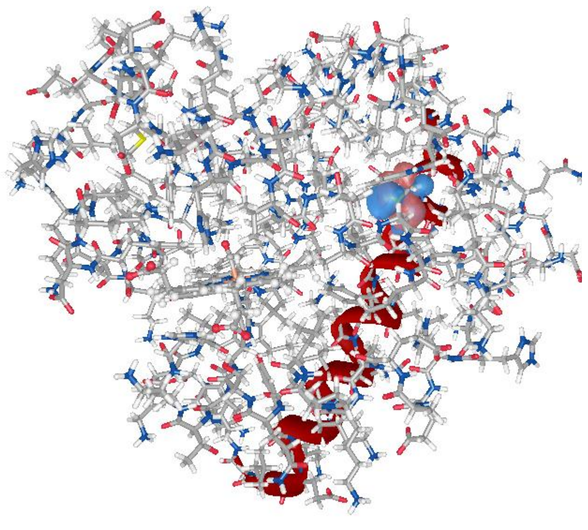


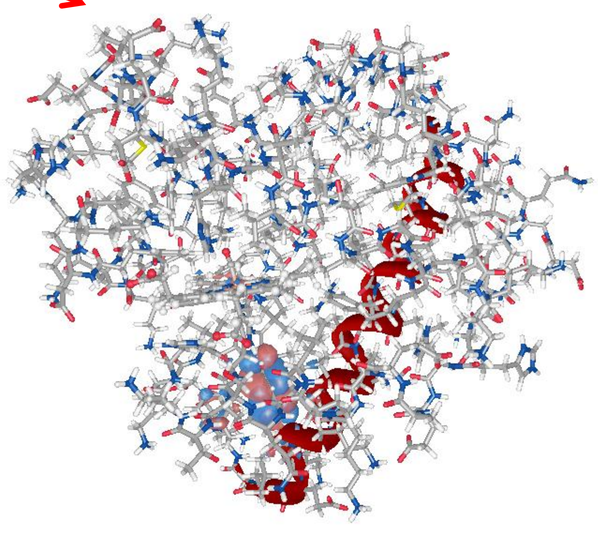


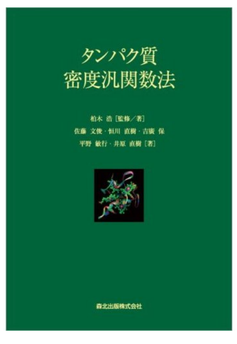












Textbooks (Japanese)