Supplemental on-line material for Local curvature and stability of two-dimensional systems

Jie Guan, Zhongqi Jin, Zhen Zhu, Chern Chuang, Bih-Yaw Jin, and David Tománek*

Optimum fullerene geometries

Fullerene geometries have been generated using the procedure described in Ref. 1 and optimized either using the Keating potential or using density functional theory, as described in the main article. Optimized geometries of C_{38} fullerenes are provided as a sequence of xyz coordinate files in `C38-Keating.ani` for Keating-optimized and `C38-DFT.ani` for DFT-optimized structures. The numbering of isomers corresponds to that used in Ref. 1. The equilibrium geometries are also displayed at the web site http://www.nanotube.msu.edu/fullerene/fullerene-isomers.html.

* E-mail: tomanek@pa.msu.edu

[1] P. W. Fowler and D. E. Manolopoulos, *An atlas of fullerenes*, International series of monographs on chemistry (Clarendon Press, 1995).