Influence of sumanene modifications with boron and nitrogen atoms to its hydrogen adsorption properties

Stevan Armaković¹, Sanja J. Armaković^{2,*}, Svetlana Pelemiš³, Dragoljub Mirjanić^{4,5}

- ¹ University of Novi Sad, Faculty of Sciences, Department of Physics, Trg Dositeja Obradovića 4, 21000, Novi Sad, Serbia,
 - ² University of Novi Sad, Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental Protection, Trg Dositeja Obradovića 3, 21000, Novi Sad, Serbia,
 - ³ University of East Sarajevo, Faculty of Technology, Zvornik, Karakaj bb, 75400 Zvornik, Republic of Srpska, Bosnia and Herzegovina
- ⁴ University of Banja Luka, Medical Faculty, 78000 Banja Luka, Republic of Srpska, Bosnia and Herzegovina

⁵Academy of Sciences and Arts of the Republic of Srpska, Trg srpskih vladara 2, 78000 Banja Luka, Republic of Srpska, Bosnia and Herzegovina

* Corresponding Author: Sanja J. Armaković,

Telephone: +381 21 485 2754

E-mail: sanja.armakovic@dh.uns.ac.rs

Supplementary Information

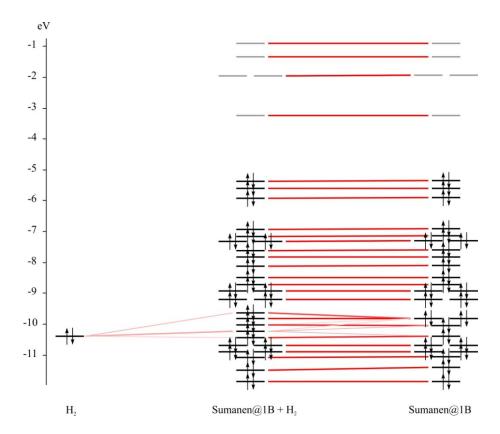


Figure S1. Fragment analysis of system consisting of sumanene derivative

modified with one boron atom and H_2

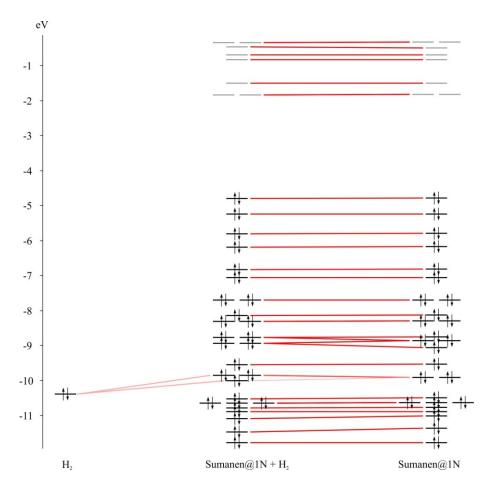


Figure S2. Fragment analysis of system consisting of sumanene derivative modified with one nitrogen atom and H_2

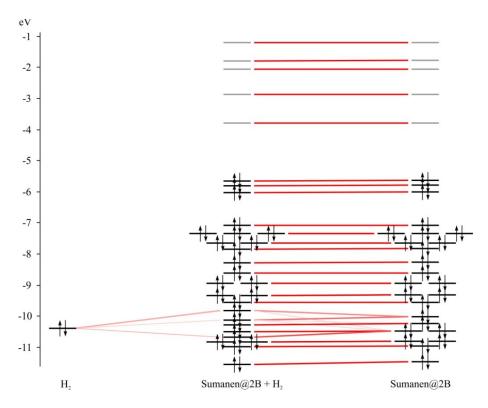


Figure S3. Fragment analysis of system consisting of sumanene derivative modified with two boron atoms and H_2

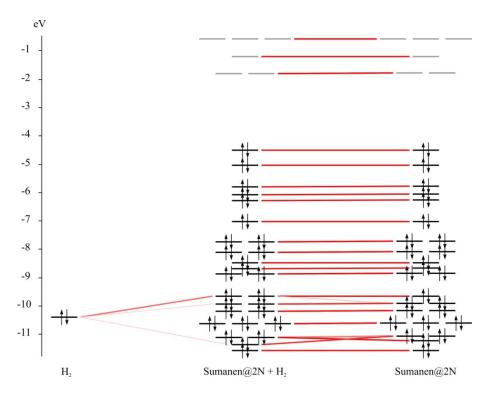


Figure S4. Fragment analysis of system consisting of sumanene derivative modified with two nitrogen atoms and H_2