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The structural, electronic, and spectroscopic properties of the potential neuroactive alkaloids: a computational study

Goncagul Serdaroglu Sivas Cumhuriyet University, Turkey

Never the set of actions of each compound have been verified by GaussView 4.1 software. The quantum chemical descriptors have been used to predict the chemical stability and reactivity behavior of each compound. Moreover, the MEP diagrams and HOMO, LUMO amplitudes have been illustrated to show the nucleophilic and electrophilic attack site of each compound. All calculations have been conducted at Tubitak Ulakbim, High Performance and Grid Computing Center.

Biography

Goncagul Serdaroglu has completed her PhD from Cumhuriyet University, in 2008 and Post-doctoral studies from Auburn University, in 2014. Her research interests are on the electronic structure methods and their applications to the medicinal and pharmacologically important molecules. Recently, she has also focused on spectroscopic investigation of organic molecules by using computational tools.

Goncagul.serdaroglu@gmail.com

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