Topological Descriptor of 2-Dimensional Silicon Carbons and Their Applications

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Chemical graph theory helps in comprehension about the atomic auxiliary properties of a chemical graph. The applications of graph theory in chemistry and in the study of molecule structures are important, and lately, it has increased exponentially. Molecular graphs have points (vertices) representing atoms (regardless of type) and lines (edges) that represents chemical bonds (regardless of type) between atoms. In this article, we study the molecular graph of two dimensional silicon-carbons $Si_2C_3 - III$ and $S_iC_3 - III$ and computed exact results for degree based topological descriptor.

Keywords: 2D silicon-carbon $Si_2C_3 - III$ and $S_iC_3 - III$, first and second Zagreb index, first and second Zagreb coindex, first and second Multiple Zagreb index