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Hyper-Wiener index and Laplacian spectrum[Gutman, I.](#)^{a b}^a Faculty of Science, University of Kragujevac, P. O. Box 60, 34000 Kragujevac, Yugoslavia^b Serbian Chemical Society**Abstract**

The hyper-Wiener index WWW of a chemical tree T is defined as the sum of the product $n_1 n_2 n_3$, over all pairs u, v of vertices of T, where n_1 and n_2 are the number of vertices of T, lying on the two sides of the path which connects u and v, and n_3 is the number of vertices lying between u and v.

An expression enabling the calculation of WWW from the Laplacian eigenvalues of T has been deduced.

Author Keywords

Alkanes; Chemical trees; Hyper-Wiener index; Laplacian spectrum; Wiener index


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