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Which valence connectivities realize monocyclic molecules: Generating algorithm and its application to test discriminative properties of the Zagreb and modified Zagreb indices

[Vukičević, D.](#)^a [Graovac, A.](#)^{b c}
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Valence connectivities in hydrogen suppressed graphs are characterized by 10-tuples of quantities m_{ij} where m_{ij} is the number of edges that connect vertices of valences i and j . It is shown which 10-tuples are realizable by monocyclic graphs and this finding is used to compare discriminative properties of the Zagreb and modified Zagreb indices.

Author Keywords

Modified Zagreb index; Monocyclic graphs; Valence connectivities; Zagreb index

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