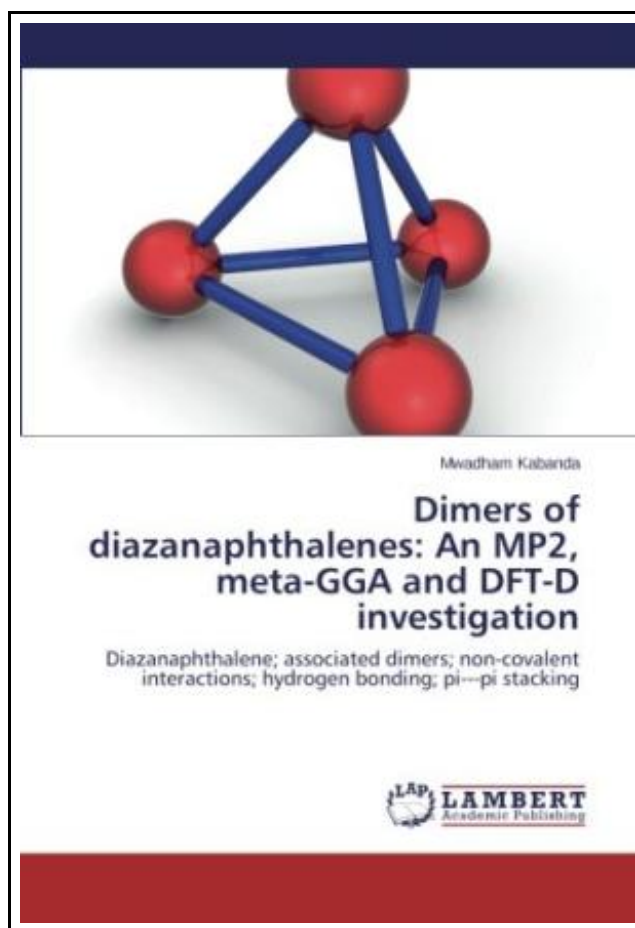


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DIMERS OF DIAZANAPHTHALENES: AN MP2, META-GGA AND DFT-D INVESTIGATION



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Book Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Diazanaphthalene; associated dimers; non-covalent interactions; hydrogen bonding; pi---pi stacking | Diazanaphthalenes are a broad class of heteroaromatic compounds with several technological and pharmacological applications. Some of these applications are attributed to the ability of diazanaphthalenes to form associated dimers through non-covalent interactions. A study of the types and strength of the interactions involved is crucial for understanding the properties of the dimers. In this study the dimers of five diazanaphthalenes, namely 1,8-naphthyridine, quinoxaline, phthalazine, quinazoline and cinnoline, are investigated by means of theoretical computational approaches. The selected computational methods include the second order Möller-Plesset perturbation theory (MP2), hybrid meta-Generalized Gradient Approximation (Meta-GGA) Density Functional Theory (DFT/MPWB1K, DFT/M05-2X and DFT/M06-2X) and DFT dispersion corrected (DFT-D/wB97XD). The objective of the study is to elucidate the dimers preferred geometries, relative energies and nature of the interactions between monomer units. A comparison across structures may also suggest the role of the position of the N atom in the ring in determining the stability of the dimers | Format: Paperback | Language/Sprache: english | 68 pp.



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