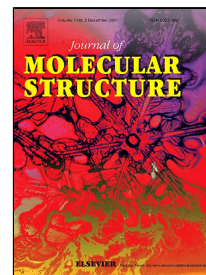


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Antimicrobial Activities, DNA Interactions, Spectroscopic (FT-IR and UV-Vis) Characterizations, and DFT Calculations for pyridine-2-carboxylic acid and its derivatives



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Highlights

- The interaction of 4Mpic with DNA is superior than 4Cpic and pic
- 4Cpic is very active against to Gram (+) bacteria
- The optimizations of pic, 4Cpic and 4Mpic were performed by using B3LYP level
- FT-IR and UV-Vis spectral characterizations were made for pic, 4Cpic and 4Mpic
- The OCH₃ and Cl substituent increase charge asymmetry, leading to increase in β

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