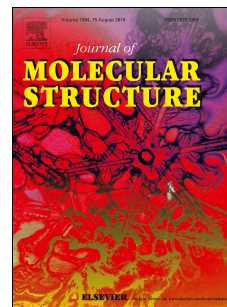


# Accepted Manuscript

X-ray crystal structure, Hirshfeld surface analysis, thermal stability and photophysical properties of some symmetrical *trans*- $\alpha,\alpha'$ -bis(diphenylphosphoryl)- and  $\alpha,\alpha'$ -bis(diphenylphosphorothioyl)cycloalkanones

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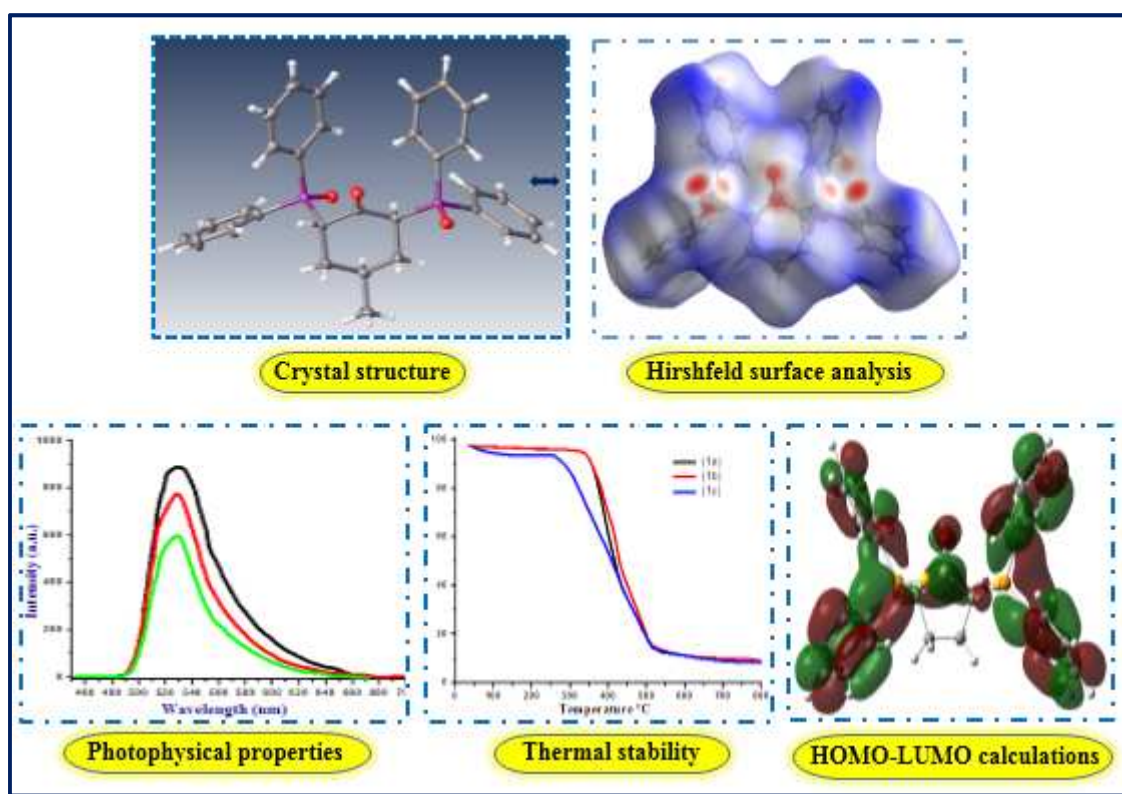
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