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Effect of asymmetrical peripheral substitution of sulfonic acid group on the geometric and electronic structures and vibrations of copper phthalocyanine studied by computational and experimental techniques

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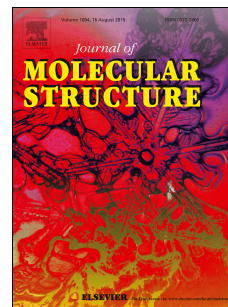
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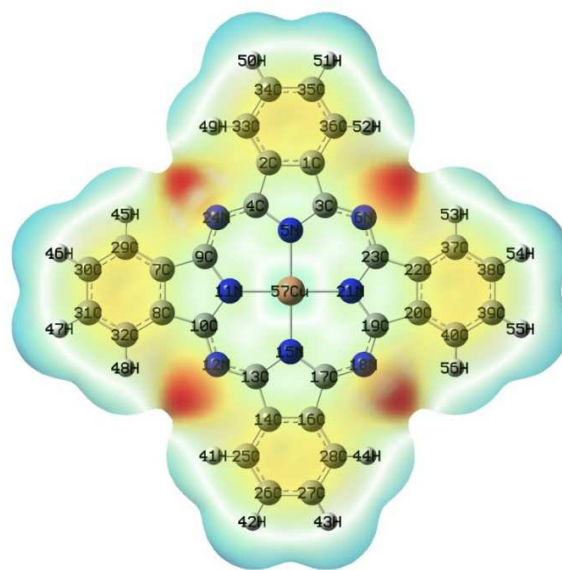
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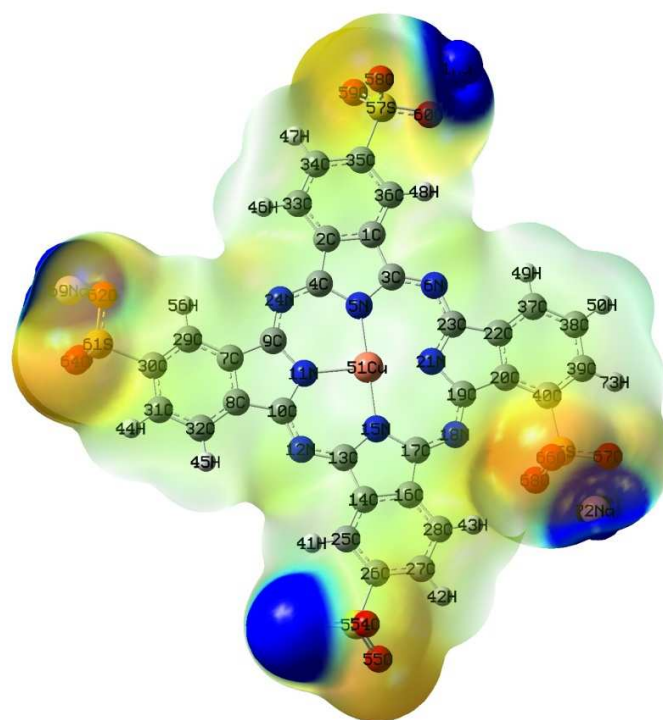
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MEP of CuPc in gas phase



MEP of CuPcTS in gas phase

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