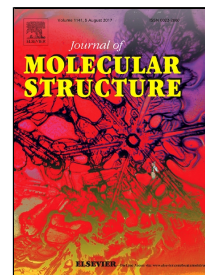


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Synthesis, structural characterisation and biological evolution of chromanones

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Highlights

- New chromanones (**4a-d**) were synthesized and characterized.
- The X-ray crystal structures of the chromanones **4a** and **4b** were elucidated.
- DNA binding constant K_b values indicate that chromanones bind with DNA possibly by an intercalative mode.
- All the chromanones were showed good ability to cleave the pET28a plasmid DNA.
- Antioxidant activity of the chromanones was examined.

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