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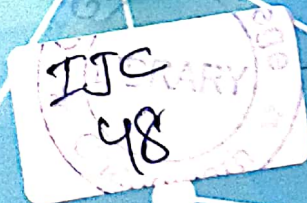
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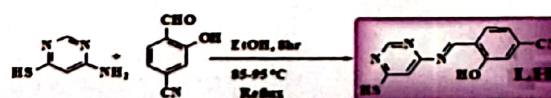
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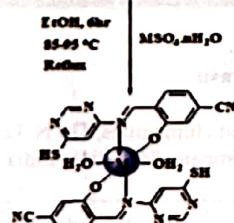
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Papers

- 11 **Synthesis, characterization and antimicrobial studies of novel Schiff base and its 3d series metal complexes**

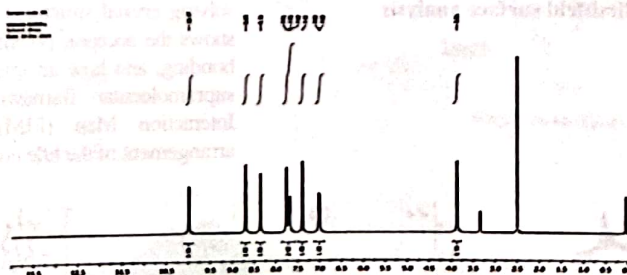


I. Synthesis section

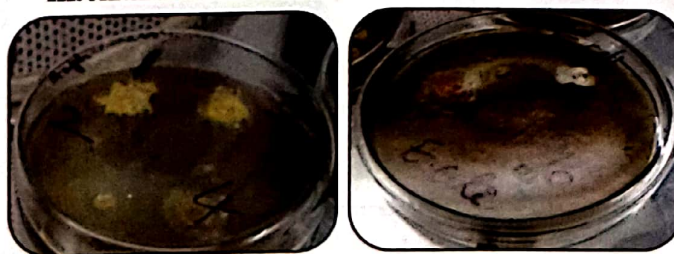


M = Mn(II), Fe(II), Co(II), Ni(II), Cu(II) and Zn(II)

II. Characterizations



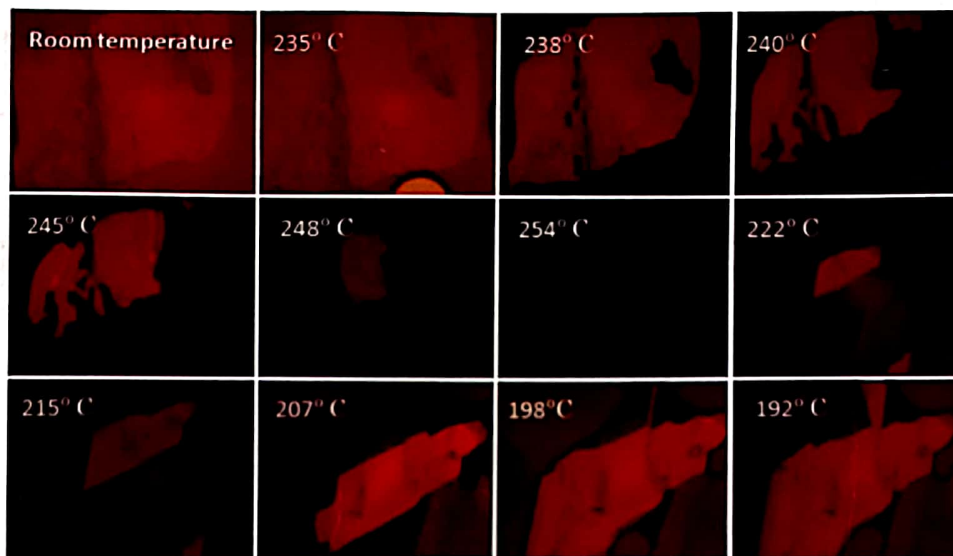
III. Antimicrobial studies



K Ramya Charitha & P Kavitha*

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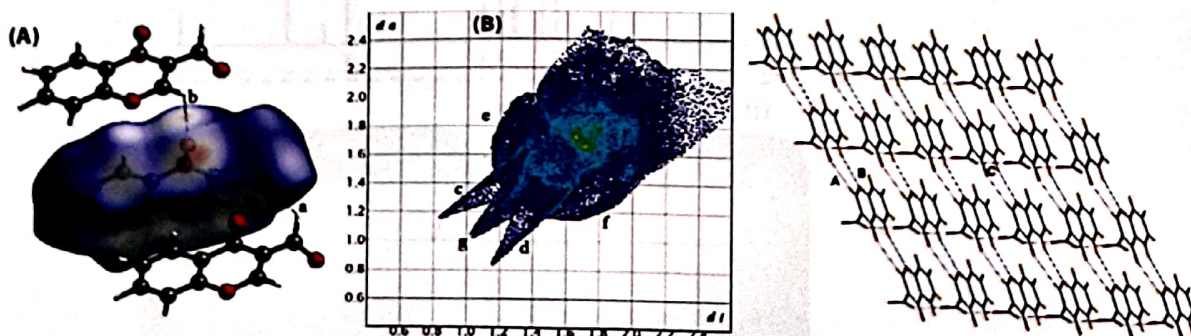
- 18 **Spectroscopic, physicochemical and antimicrobial studies of 1-(2,4-dinitrophenyl)-2-[(E)-(3,4,5-trimethoxybenzylidene)] hydrazine single crystal** The present paper describes the spectroscopic, physicochemical and antimicrobial properties of a hydrazone based Schiff base compound.



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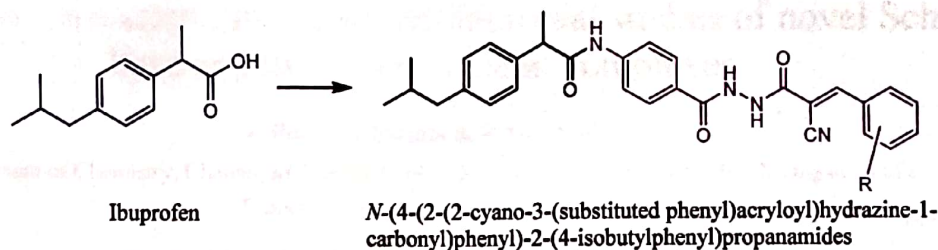
- 24 **Weak intermolecular interactions modulate supramolecular synthon: A combined X-ray powder diffraction and Hirshfeld surface analysis** The structure analysis of 4-oxo-4*H*-chromene-3-carb-aldehyde clearly demonstrates the potential of X-ray powder diffraction methodology in solving crystal structures of molecular compounds. The present study shows the acceptor potentiality of electronegative atoms in hydrogen bonding, and how an interplay of weak hydrogen bonds can lead to supramolecular framework. Additionally, interpretation of Full Interaction Map (FIM) also supports the observed packing arrangement of the title compound.



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- 32 **Synthesis, biological evaluation and *in silico* studies of novel N-(4-(2-(2-cyano-3-(4-substituted phenyl)-acryloyl)hydrazine-1-carbonyl)phenyl)-2-(4-isobutyl-phenyl)propanamides**

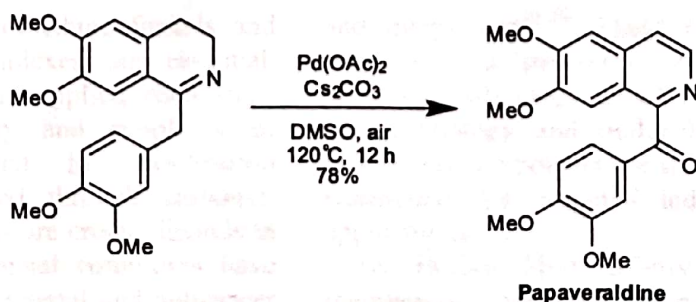


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Notes

- 42 **Aerobic palladium(II) catalysed oxidative route for synthesis of Papaveraldine**



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