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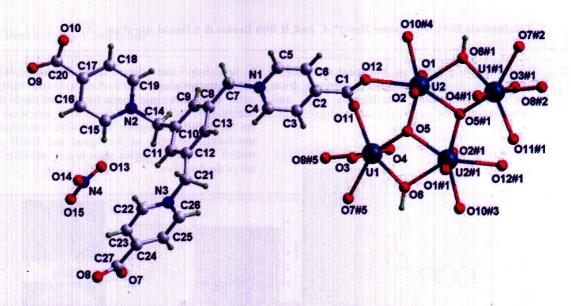
## **NUMBER 11**

**NOVEMBER 2021** 

## CONTENTS

#### Papers

1409 Synthesis, crystal structure, luminescent, and photocatalytic properties of a uranyl(VI)-organic framework based on tripodal flexible zwitterionic ligand A uranyl(VI)-organic framework based tripodal flexible zwitterionic ligand is synthesized and shown good photocatalytic activity in the degradation of MB under visible light irradiation using an LED lamp ( $\lambda$ > 420 nm).

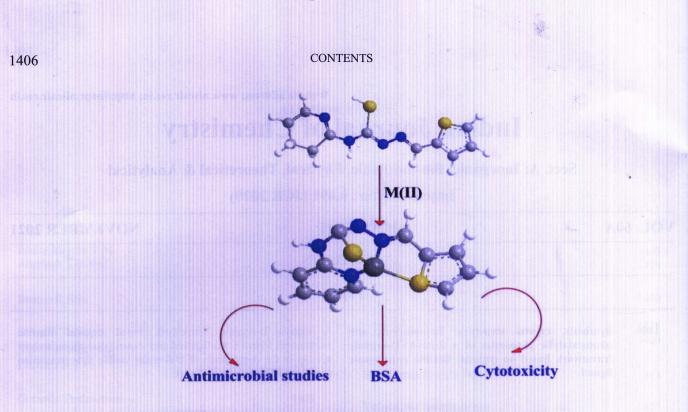


Yuning Meng, Fei Niu, Xiaolin Zhang, Donghui Liu, Qiaofa Lan & Youming Yang\*

1416 Microwave synthesis, characterization and biological A activities of transition metal complexes with novel yl SNSN donor Schiff base ligand be

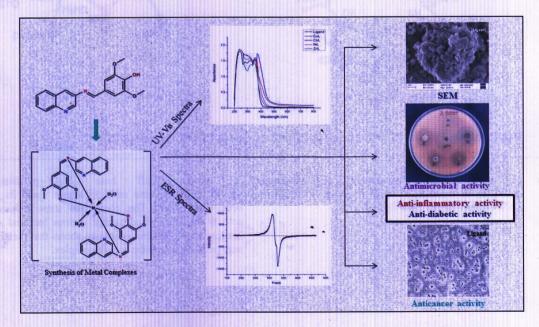
A novel Schiff base (E)-N-(pyridine-2-yl)thiophen-2ylmethylene)hydrazine carbothioamide and its complexes have been synthesized. The complexes show enhanced antibacterial activity than the ligand against various bacterial strains. The BSA binding activity of the complexes shows that the affinity for binding was greater towards the copper complex.

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P R Sagunthala Devi, S Theodore David\*, C Joel, R Biju Bennie & S Daniel Abraham

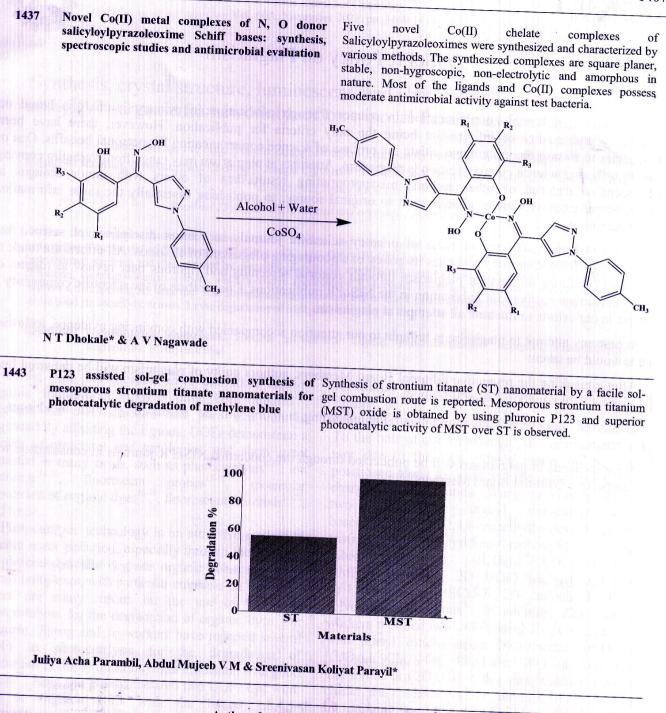
1427 Synthesis, characterization, biological activities of Schiff base metal(II) complexes derived from 4-hydroxy-3,5-dimethoxybenzaldehyde and 3-aminoquinoline A new Schiff base ligand (E)-2,6-dimethoxy-4-((quinolin-3ylimino)methyl)phenol and its Cu(II), Co(II), Ni(II) and Zn(II) metal complexes have been synthesized and characterized. Interestingly, Cu(II) complex shows better anticancer activity than the free Schiff base ligand. The *in vitro* anti-inflammatory and anti-diabetic activities of the ligand and Cu(II) complex are studied. The Cu(II) complex show higher inhibition activity than that of the free ligand.



Somasundaram Karthik, Thulasimani Gomathi & Subramaniam Vedanayaki\*



1407



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