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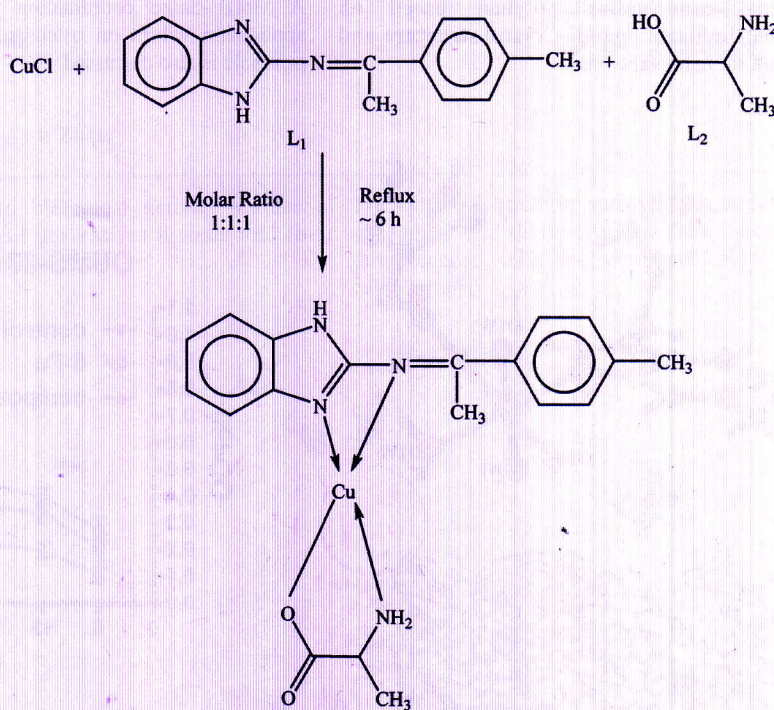
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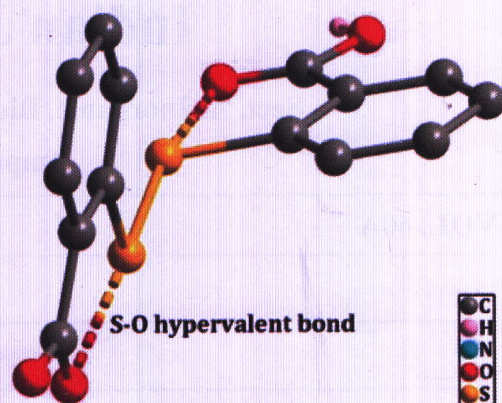
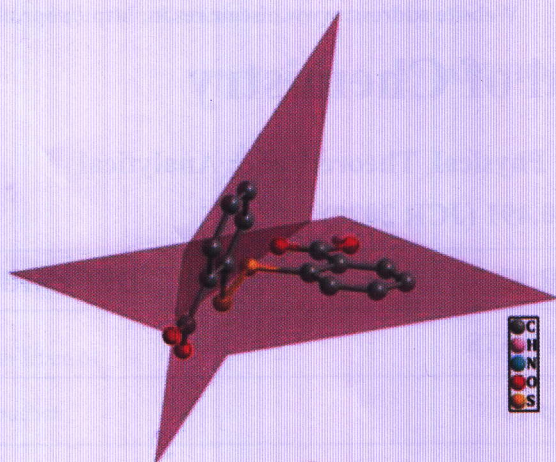
### Papers

- 1539 Mixed ligand complex of monovalent copper with benzimidazole derivatives and alanine: Synthesis, characterization and antimicrobial studies**
- A novel copper(I) complex is synthesized by the reaction of two ligands, 2-N-(4-methyl phenyl ethanimine) benzimidazole ( $L_1$ ) and Alanine ( $L_2$ ) and freshly prepared cuprous chloride solution in 1:1:1 molar ratio through conventional reflux method. The complex has shown remarkable antibacterial and antifungal activity.



Poonam Yadav, Shobhana Sharma, Suman Kumari, Seema & Mamta Ranka\*

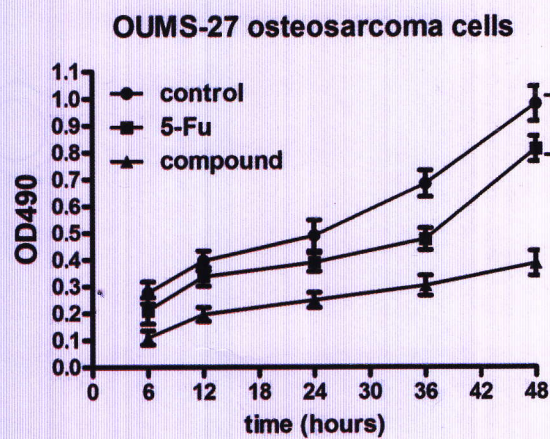
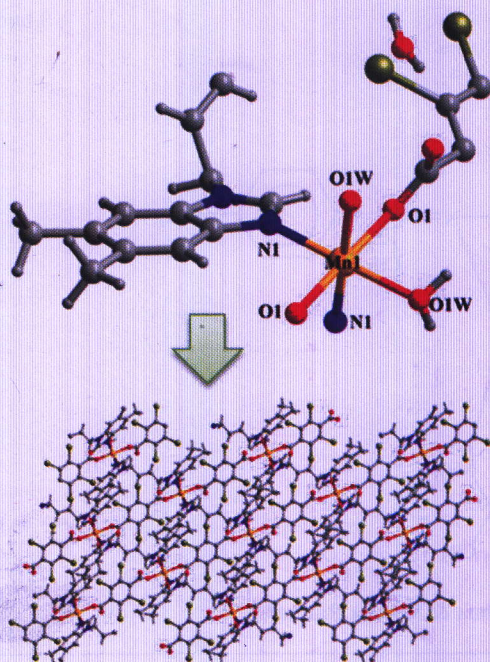
- 1545 Syntheses, crystal structures and properties of three compounds based on the dicarboxylate ligand with S-S flexible linkage**
- Three new compounds,  $[MnL(2,2'-bipy)_2]_n \cdot 1.5nH_2O$  (1),  $Co(4,4'-bipy)(H_2O)_4 \cdot 2HL$  (2) and  $2HL \cdot (4,4'-bipyH) \cdot 2H_2O$  (3) ( $H_2L = 2,2'$ -dithiosalicylic acid, 2, 2'-bipy = 2, 2'-bipyridine, 4, 4'-bipy = 4,4'-bipyridine), have been synthesized by hydrothermal and evaporation methods.  $H_2L$  molecule displays L-shape structure along the flexible S-S axis, which allows two terminal benzene rings to rotate freely to generate various dihedral angles..



Xin Wang, Ying Wang & Lei Guan\*

1551 **New Mn(II)-coordination polymer based on flexible benzimidazol ligand: Crystal structure and application on osteosarcoma**

A Mn(II)-based coordination polymer is synthesised, and its application values on osteosarcoma are measured. The internal principle is also discussed.

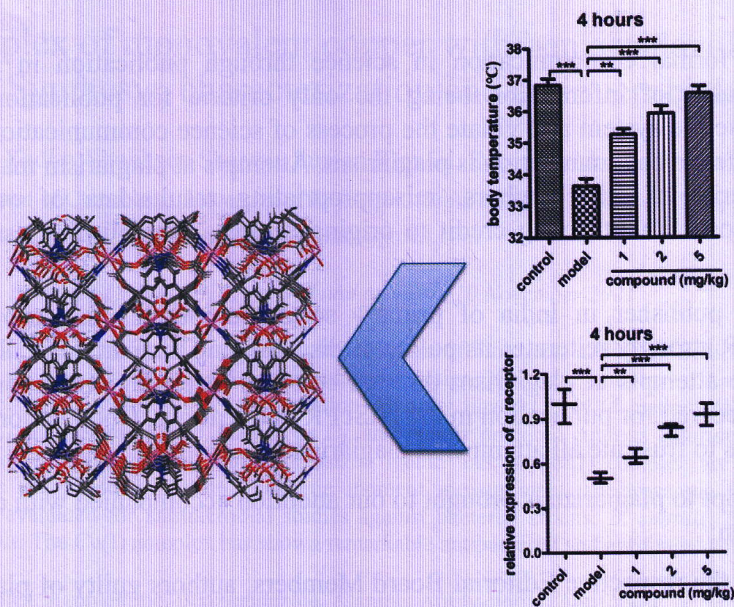


Mn(II) complex showing anticancer activity

Zhiming Ni, Shuchen Ding, Yuan Qu, Hongbo Yu & Junjie Xia\*

1557 Application value of Co(II) coordination polymer in the treatment and operational nursing of hypothermia

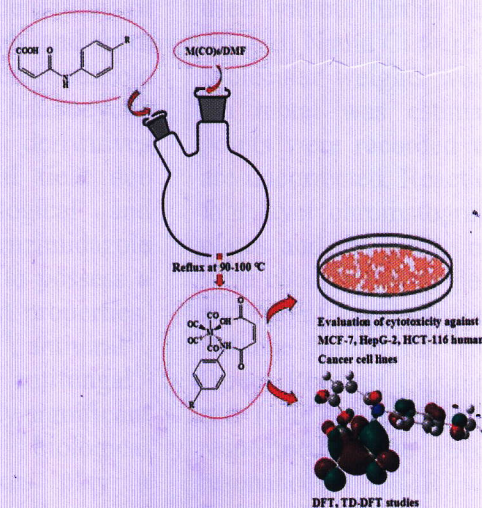
A Co(II)-based coordination polymer was synthesized, and its treatment and nursing application values on hypothermia in patients undergoing surgery are examined. The specific mechanism is also explored.



Sha Li, Ye Li & Fang-Yu Zhou\*

1564 DFT, TD-DFT and biological activity studies of some maleanilic acid derivatives ligands and their organometallic complexes

The molecular structure and cytotoxic activity relationship of some maleanilic acid derivatives and their carbonyl complexes against three cancer cells are compared along with the theoretical calculations.



Khlood R Oraby, Fatma S M Hassan, M A Zayed, Adila E Mohamed & Islam M Abdellah\*

1575 Annual Index

Authors for correspondence are indicated by (\*)