

# Indian Journal of Chemistry

Sect. A: Inorganic, Bio-inorganic, Physical, Theoretical & Analytical

VOL. 59A

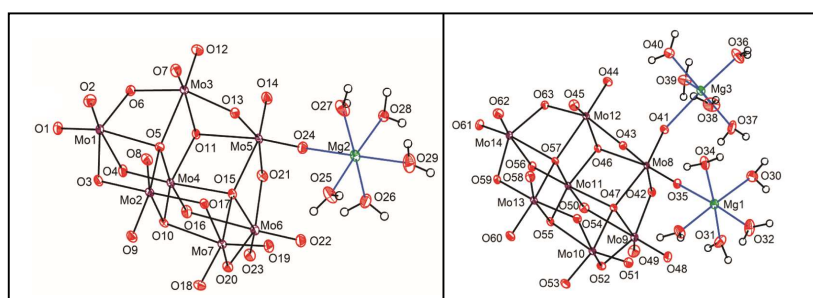
NUMBER 04

April 2020

## CONTENTS

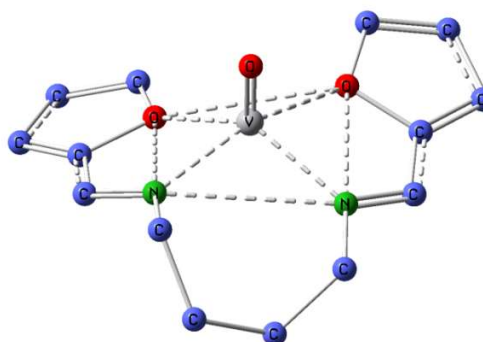
### Papers

- 517 **Structural identification of two differently coordinated heptamolybdate ligands in a hexamagnesium compound** We describe the synthesis, crystal structure and properties of a polar hexamagnesium compound  $[\text{Mg}(\text{H}_2\text{O})_6]_3[\text{Mg}(\text{H}_2\text{O})_5(\text{Mo}_7\text{O}_{24})] \cdot [(\text{H}_2\text{O})_5\text{Mg}(\mu_2\text{-Mo}_7\text{O}_{24})\text{Mg}(\text{H}_2\text{O})_5] \cdot 6\text{H}_2\text{O}$  which contains two differently coordinated heptamolybdate ligands.



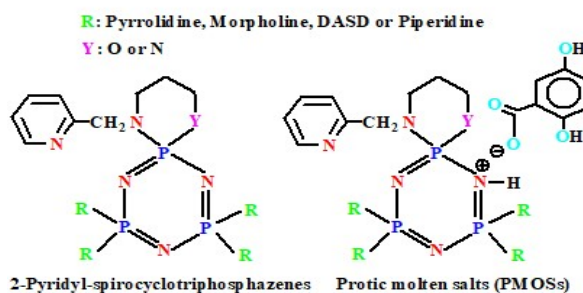
Bikshandarkoil R Srinivasan\*, Savita S Khandolkar & Sudesh M Morajkar

- 526 **VO(IV) complexes of  $\text{N}_2\text{O}_2$  tetra dentate ligands with flexible alkyl spacer: synthesis, characterization and antibacterial activities** Three Schiff base ligands which contain  $\text{N}_2\text{O}_2$  donors and their oxovanadium(IV) complexes have been synthesized. The antibacterial activities of the ligands and their complexes have been determined on the microorganisms. The complexes, in general, appeared to be more active than their parent ligands.



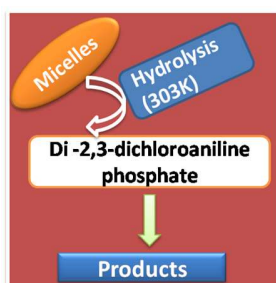
Guhergul Ulucam\* & Busra Yenturk

- 533 **Phosphorus-nitrogen compounds. Part 48. syntheses of the phosphazenum salts containing 2-pyridyl pendant arm: structural characterizations, thermal analysis, antimicrobial and cytotoxic activity studies** The protic molten salts of 2-pyridylspirocyclotriphosphazene bases have been synthesized. Spectroscopic, crystallographic, stereogenic, thermal properties, biological activities and cytotoxicity against MDA-MB-231 breast cancer cells of these products are presented.



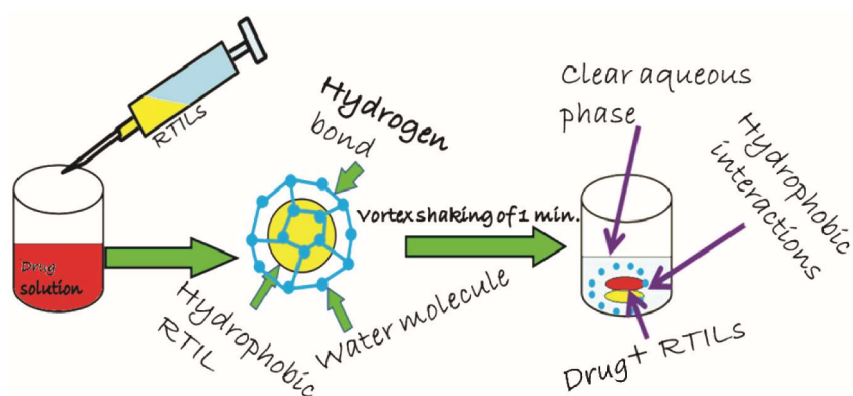
Gamze Elmas\*, Aytuğ Okumuş\*, Zeynel Kılıç, Pelin Özbeden, Leyla Açık, Beste Çağdaş Tunali, Mustafa Türk, Nebahat Aytuna Çerçi & Tuncer Hökelek

- 551 **Effect of micelles on hydrolysis of di-2,3-dichloroaniline phosphate** The effect of anionic surfactant, di-octylsodium sulphosuccinate (AOT) and nonionic surfactant, polyoxyethylene-sorbitanmonooleate (Tween-80) on the hydrolysis of di-2,3-dichloroaniline phosphate has been studied spectrophotometrically at 303 K.



Nisha Chhetri, Shashikala A Bhoite, Ajaya Kumar Singh\* & Bhawana Jain

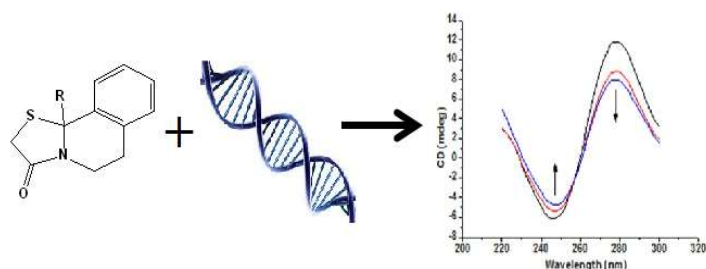
- 563 **Room temperature ionic liquid based extraction and recovery of Rifampicin from water and its mechanistic study** A fast and an eco-friendly method have been proposed for the extraction of Rifampicin from its aqueous solution using room temperature ionic liquids, out of which hydrophobic [BMIM][PF<sub>6</sub>] have showed the best extraction efficiency.



Chander Prakash & Shafila Bansal\*

### Notes

- 569 **Synthesis and interaction of thiazolo [2,3-a]isoquinoline analog with DNA** The synthesis of 10b-(furan-2-yl)-5,6-dihydro-2H-thiazolo[2,3-a]isoquinolin-3(10bH)-one [FUIQTGA] has been performed and its interaction with DNA involves a static quenching mechanism as observed from fluorescence measurements.



Groove binding interaction of small molecule with DNA

Prasanna B Ranade\*, Dinesh N Navale, Santosh W Zote & M M V Ramana

574 Additions and Corrections

575 Guide to Authors

Authors for correspondence are indicated by (\*)