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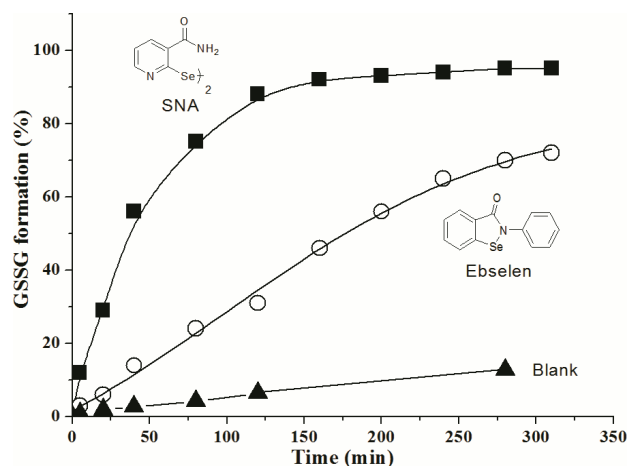
NUMBER 6

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CONTENTS

**781 *In vitro* antioxidant studies on diselenodinicotinamide:
 A potent GPx mimic**

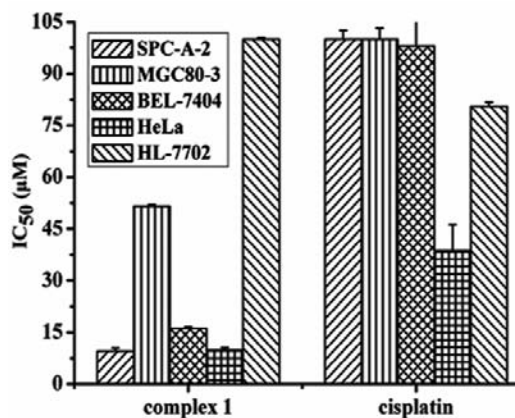
Water soluble, diselenodinicotinamide exhibits antioxidant activity and multifunctional biological activities similar to mimics of glutathione peroxides, evident from its ability to inhibit free radical induced damage to biomolecules like lipids and DNA. Also, since it is non-toxic to normal cells but slightly toxic to cancer cells, it is a potential candidate for future *in vivo* studies as an antioxidant.



Parashiva Prabhu C, B Adhikari, P P Phadnis,
 S Chakraborty, V K Jain* & K I Priyadarsini*

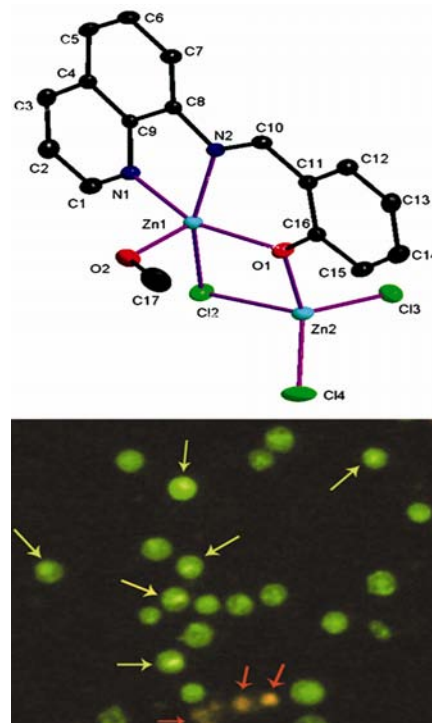
**787 Synthesis, antitumor activity and G-quadruplex
 DNA/ct-DNA binding property of a cationic
 platinum(II) complex of 2-(4-nitro)-imidazo-
 [5,6-f][1,10]-phenanthroline**

The cationic platinum(II) complex shows higher cytotoxicity on selected tumor cell lines than cisplatin, but no obvious cytotoxicity on HL-7702 normal liver cell line. This complex can induce the human telomeric DNA to transform into the antiparallel G-quadruplex structure.



Xu-Jian Luo, Qi-Pin Qin, Yu-Lan Li, Yan-Cheng Liu*
 & Hong Liang*

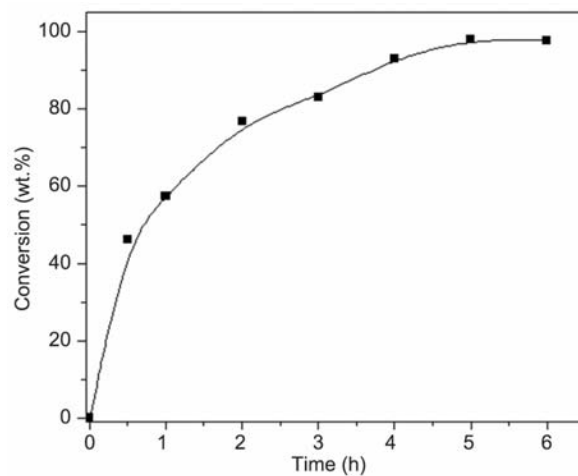
- 793 **A binuclear zinc(II) Schiff base complex: Crystal structure characterization, antitumor activity and cell apoptosis induction in BEL-7404 tumor cells**



Yao Huang*, Wen-Xiang Wang & Xiao-Jun Zhou

- 799 **Catalytic activity of sulfated zirconia solid acid catalyst for esterification of myristic acid with methanol**

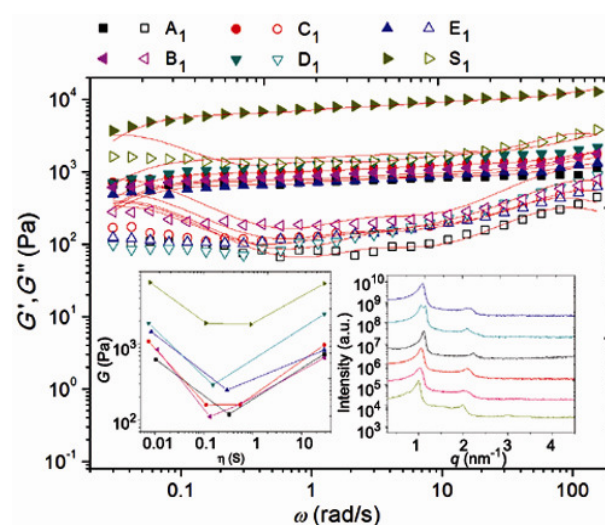
A very small amount of SZ catalyst (0.5 wt%) exhibits excellent activity for the selective formation of methyl myristate at 60 °C after 5 h. The re-used catalyst also shows good catalytic performance without significant difference in activity up to five reaction cycles.



K Saravanan, Beena Tyagi* & H C Bajaj

806 Rheological properties of lamellar liquid crystals formed in Brij97/castor oil/water systems in the presence of soybean lecithin

Dynamic moduli of the lamellar liquid crystals formed in Brij97-soybean lecithin/castor oil/water system are clearly dependent on the soybean lecithin concentration and structure of the oil component. This is consistent with the molecular area of the surfactants at the interface and reflects the strength of the liquid crystal network.

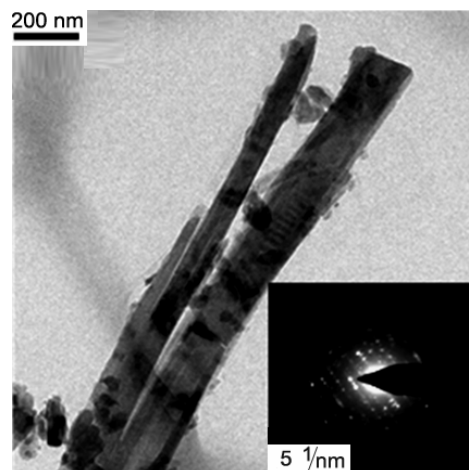


Ling Wei, Zhongni Wang*, Xin Liu, Fumin Guo, Jun Fan & Lei Fu

Notes

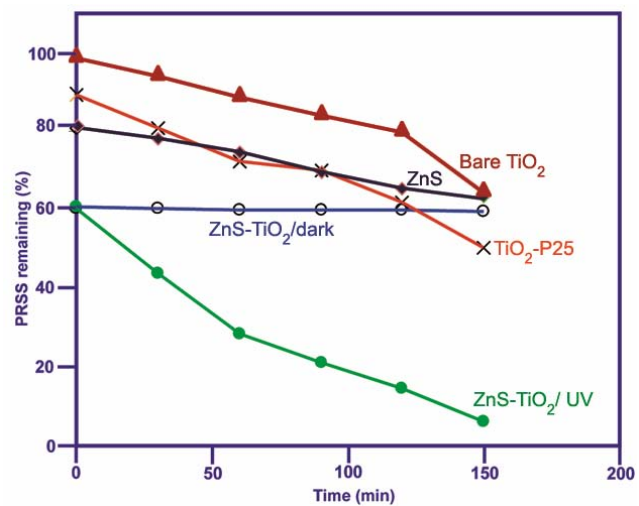
816 Synthesis of single crystal zeolite L rods with high aspect ratio using rice husk ash as silica source

Single crystal zeolite L rods with high aspect ratio have been synthesized using rice husk ash, an agrowaste material, as the silica source.



Rituparna Das, Sourav Ghosh & Milan Kanti Naskar*

820 **Highly active ZnS loaded TiO_2 photocatalyst for mineralization of phenol red sodium salt under UV-A light**



P Dhatshanamurthi, B Subash, B Krishnakumar & M Shanthi*

Authors for correspondence are indicated by (*)