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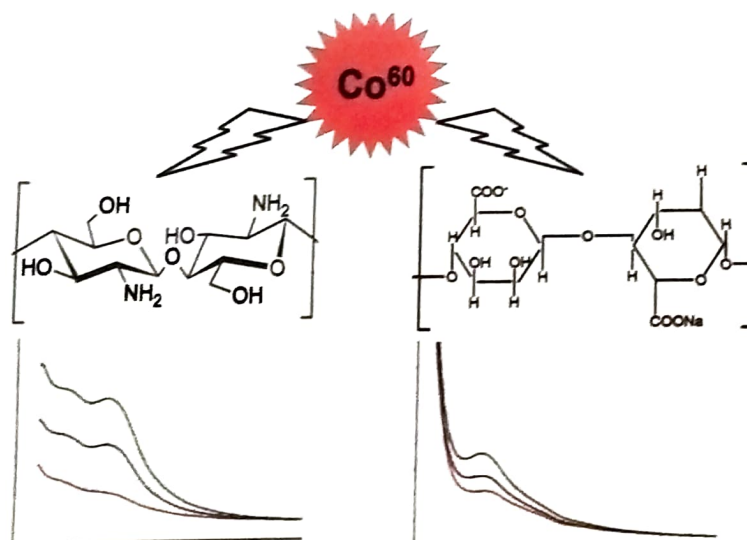
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CONTENTS

Papers

- 899 Gamma degradation studies of chitosan and sodium alginate biopolymers

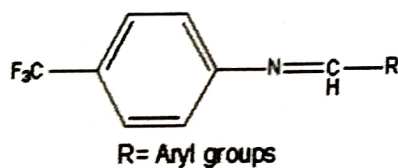


Apurva Bambal, Ravin Jugade*, Vaishnavi Gomase, Anita Shekhawat & D Sarvanan

Department of Chemistry, RTM. Nagpur University, Nagpur 440 033, India

- 906 Synthesis, spectral, crystal, computational studies and antimicrobial activities of (*E*)-*N*-(substituted arylidene)-3-(trifluoromethyl)anilines

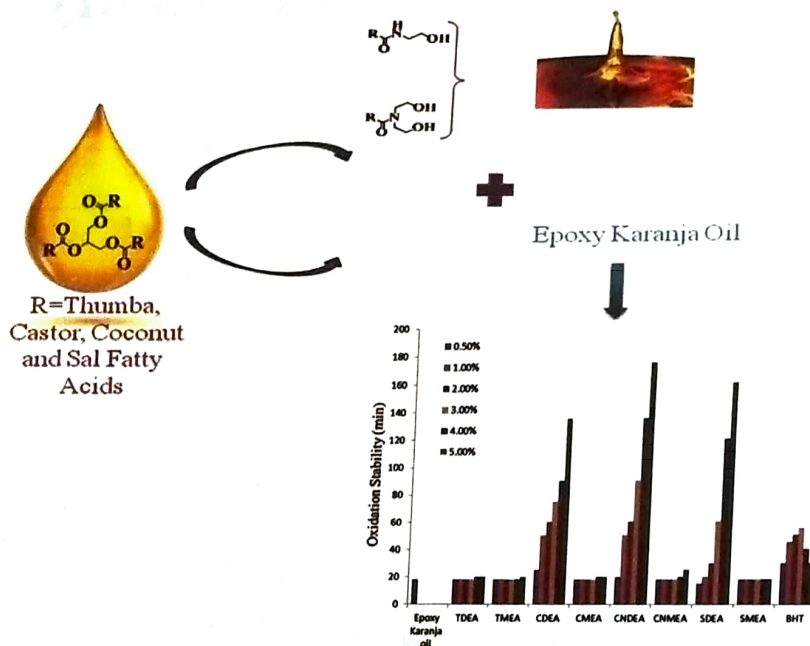
More than 90% yields of some new 4-trifluorophenyl based Schiff bases have been obtained by solvent-free method. The crystal, optimized structures and electrostatic potentials of imines have been studied. All imines show good to satisfactory antibacterial activities against the tested bacterial stains.



N Dineshkumar, I Muthuvel & G Thirunarayanan*

Department of Chemistry, Annamalai University, Annamalaiagar 608 002, India

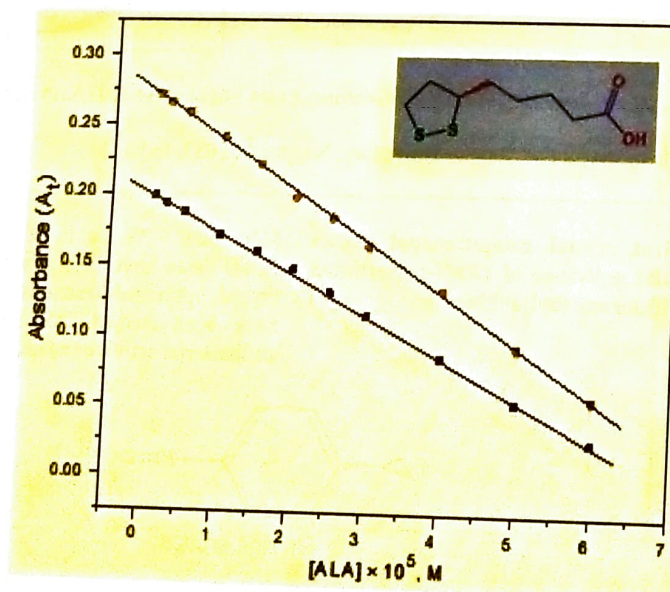
921 Vegetable oil-based ethanolamides as potential anti-oxidant additives for lubricant formulations



Kamalakar Kotte, Thirupathi Azmeera, R B N Prasad & M S L Karuna*

Centre for Lipid Science and Technology, CSIR-Indian Institute of Chemical Technology, Uppal Road, Hyderabad 500 007, India

931 Determination of alpha-lipoic acid in pharmaceutical samples using inhibitory kinetic approach in SLS micellar medium



Abhishek Srivastava*, Neetu Srivastava & Ruchi Singh

Department of Chemistry, GLA University, Mathura 281 406, U.P., India

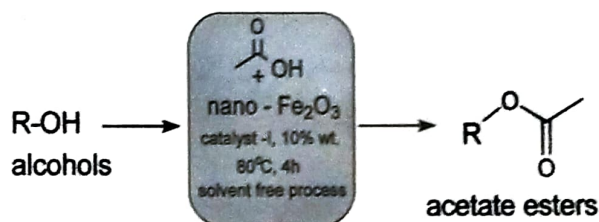
940 Synthesis of crop protection agent mandipropamid



K Annapurna, S Fatima Zeenath & A Venkat Narsaiah*

Organic Synthesis Laboratory, Fluoro-Agrochemicals Department, CSIR-Indian Institute of Chemical Technology, Hyderabad 500 007, Telangana, India

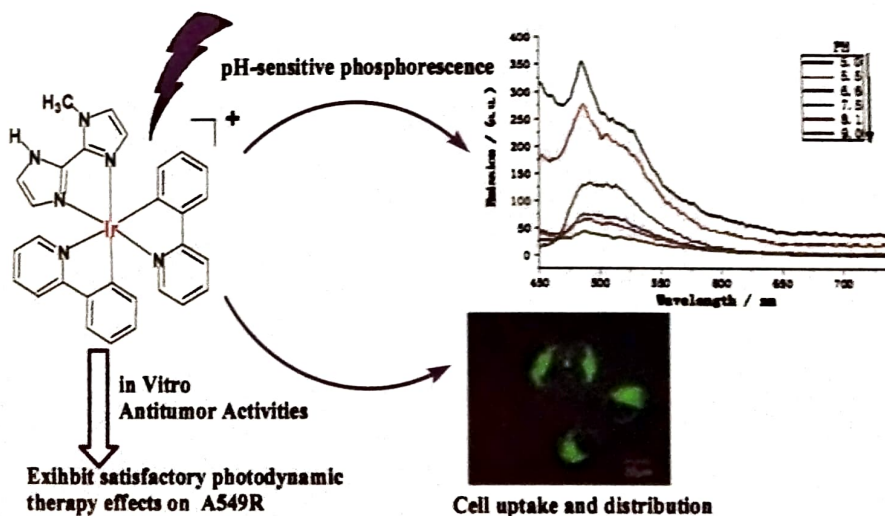
945 Nanocomposite γ -ferric oxide (γ - Fe_2O_3) mediated, green, solvent free, one pot synthesis of naturally occurring acetate esters



Chandan P Amonkar*, Savio S Dias & Anita S Tilve

Department Of Chemistry, P.E.S.'s R.S.N. College of Arts and Science, Farmagudi, Ponda, Goa 403 401, India

950 Synthesis, characterization and *in vitro* antitumor activities of a biimidazole-chelated Ir(III) complex

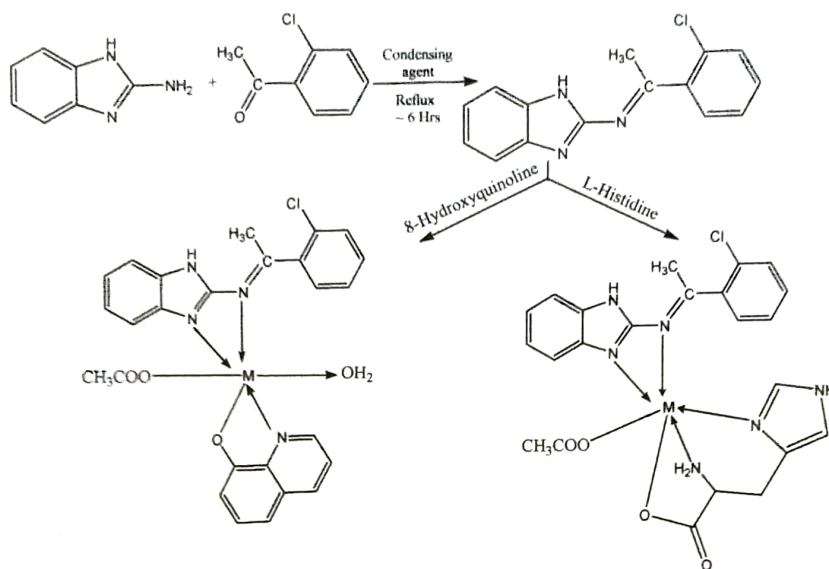


Miao Ouyang*, Ping Hu, Hong Cai, Yanhuai Chen & Hongzhao Lin

School of Chemical and Environmental Engineering, Hanshan Normal University, Chaozhou, Guangdong, China

956 Synthesis of ternary metal complexes of bivalent metal ions with benzimidazole derivative and their antimicrobial studies

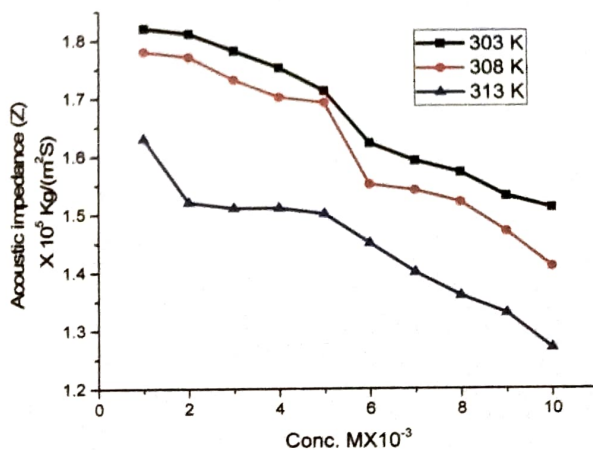
An approach towards synthesizing a Schiff base derived from 2-aminobenzimidazole and 2-chloroacetophenone and their complexation with transition metals using different secondary ligands (8-hydroxyquinoline or L-histidine) have been summarized and their biological studies evaluated.



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

Department of Chemistry, University of Rajasthan, Jaipur 302 004, India

962 Ultrasonic study for the molecular interactions of the ternary liquid mixture of *p*-anisaldehyde (4-methoxy benzaldehyde) with dimethylamine (N-methylmethanamine) and *n*-hexane at various temperatures

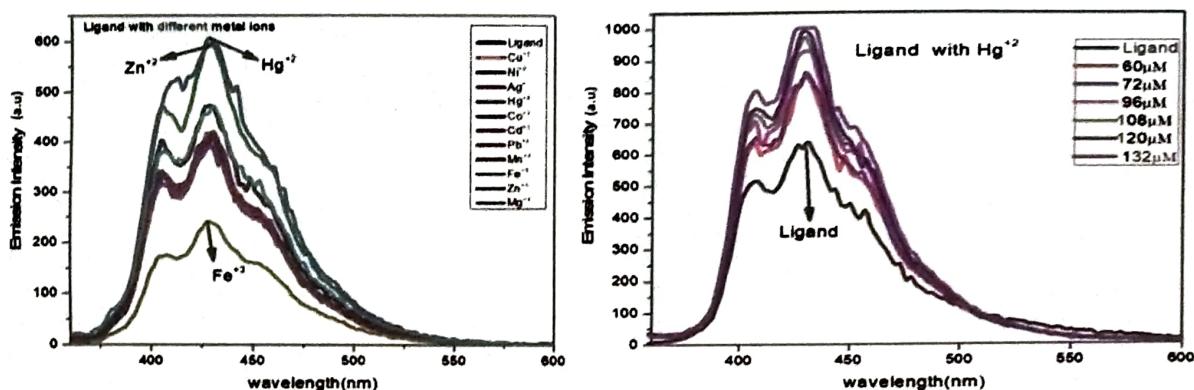


Y Geetha, P S Syed Ibrahim*, J Edward Jeyakumar & S Chidambara Vinayagam

Department of Chemistry, V.S.B Engineering College, Karur 639 111, India

970 Pyridine-2,6-dicarboxamide-based fluorescent sensor for detection of Fe^{3+} and Hg^{2+}

Novel and efficient fluorescent probes having N2, N6-bis(5-Mercapto-1,3,4-thiadiazol-2-yl)pyridine-2,6-dicarboxamide (TPDC) are synthesized by the condensation reaction between pyridine-2,6-dicarboxylic acid and amino derivatives of thiadiazoles. The novel fluorescent probe TPDC exhibits a highly sensitive and selective response to Fe^{3+} and Hg^{2+} ions in HEPES buffer solution showing the detection limit to be $0.49 \mu\text{M}$ and $0.0066 \mu\text{M}$, respectively.

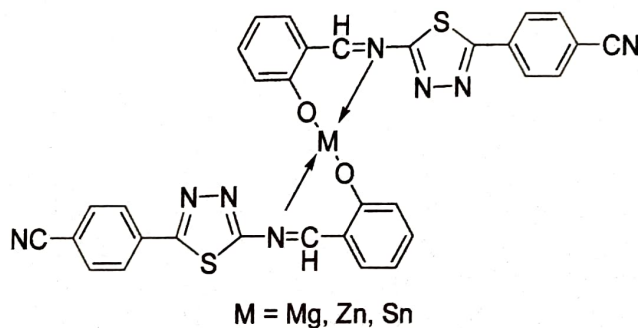


Gajendra Kumar, Anuroop Kumar & Netra Pal Singh*

Department of Chemistry, DDU Gorakhpur University, Gorakhpur 273 009, India

976 Schiff base metal complex synthesis, characterization, and antimicrobial application

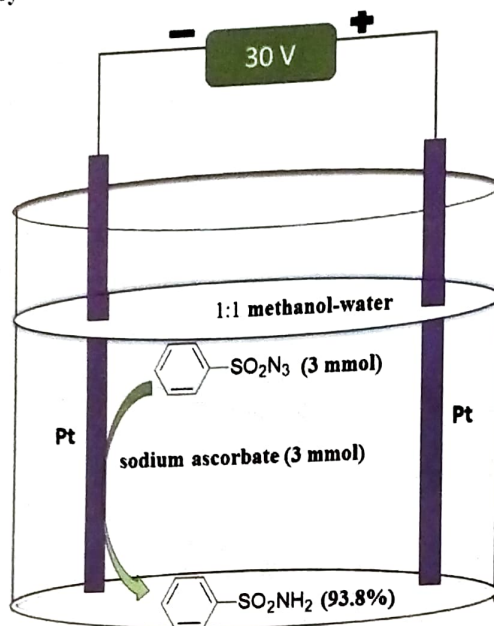
All three novel metal complex derivatives from the 4-(5-((2-hydroxybenzylidene)amino)-1,3,4-thiadiazol-2-yl)benzonitrile in alcoholic medium have been effectively synthesised by combining HL with the metal ions $\text{Mg}(\text{II})$, $\text{Zn}(\text{II})$, $\text{Sn}(\text{II})$. Elemental analysis, molecular weight, magnetic moment, spectroscopic methods have been used to characterise the produced complexes.



V Madhukar & S Jyothi*

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- 980 Electrochemical conversion of benzene sulphonyl azide into sulphonamide assisted by sodium ascorbate



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- 986 Additions and Corrections

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