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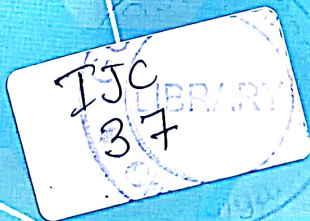
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# Indian Journal of Chemistry



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# Indian Journal of Chemistry

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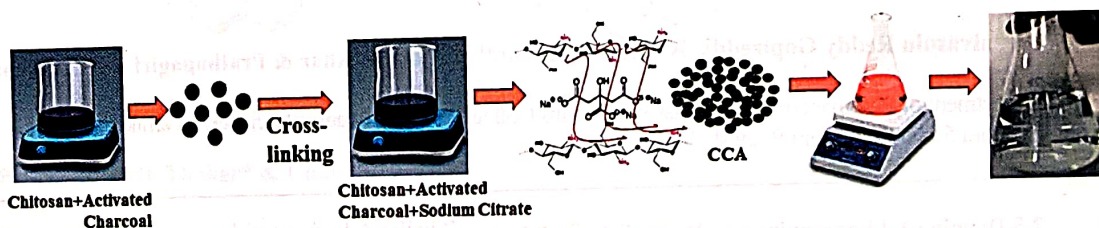
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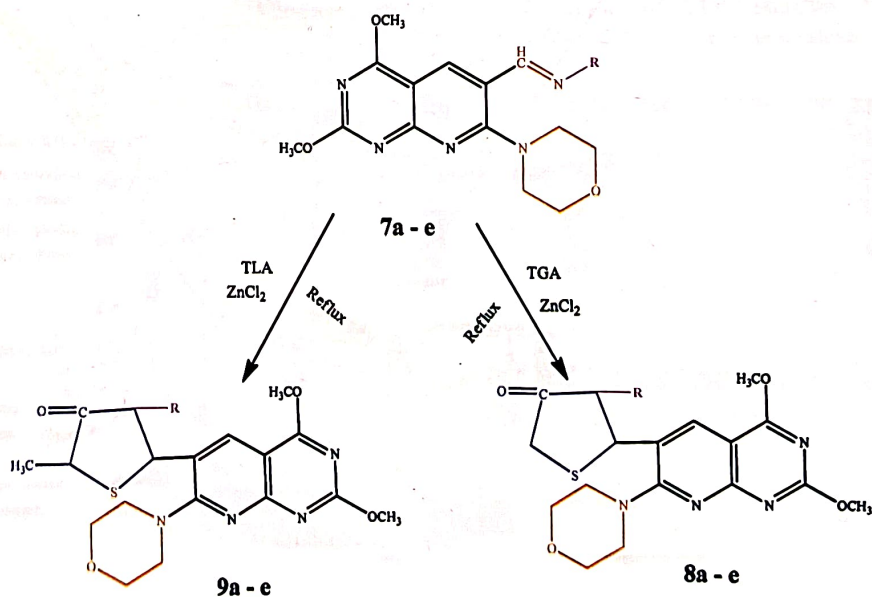
- 127 Chitosan augmented activated charcoal for adsorption of reactive red 21 dye from solution phase



P M Nandanwar\* & R M Jugade

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

- 137 Synthesis of novel pyrido[2,3-*d*]pyrimidine derivatives with pharmacological properties

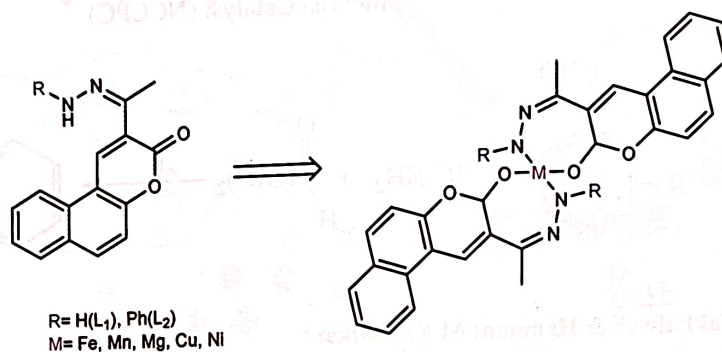


Hemanshu T Tandel\*, Priya Kayastha & Bhargavi B Mistry

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165 Schiff base ligand and metal (II) complex: Synthesis, characterization and biological evaluation

Mixed ligand complexes of Cu (II), Ni (II), Mg (II), Hg (II) and Fe (II) with an innovative Schiff base ligand denoted as (L1), (Z)-2-(1-hydrazineylidene-ethyl)-3H-benzo[f]chromen-3-one and (L2), (E)-2-(1-(2-phenylhydrazineylidene)ethyl)-3H-benzo[f]chromen-3-one, as the principal ligands have been synthesized and characterized. Assessments include elemental analyses and mass spectrometry, Fourier transform-infrared and ultraviolet-visible spectroscopy. The mixed ligand complex has been evaluated for its antibacterial activity against two Gram-positive bacteria (*Bacillus subtilis*, MTCC 441 and *Staphylococcus aureus*, MTCC 96) and two Gram-negative bacteria (*Pseudomonas aeruginosa*, MTCC 1866 and *Escherichia coli*, MTCC 443).

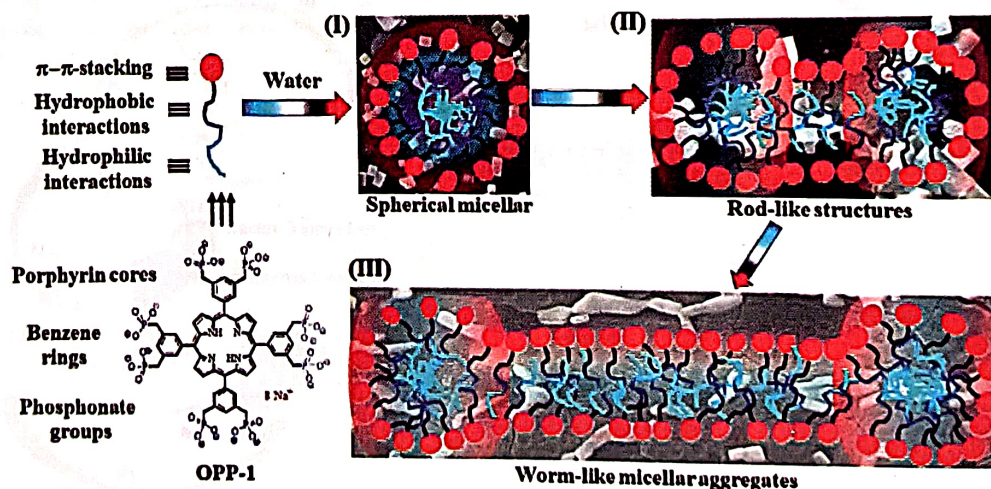


Dipen Panchani, Tirth Thaker\* & Chaitali Lamse

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172 Controlling macromolecular superstructures of AIE-active porphyrin by manipulating pH in water

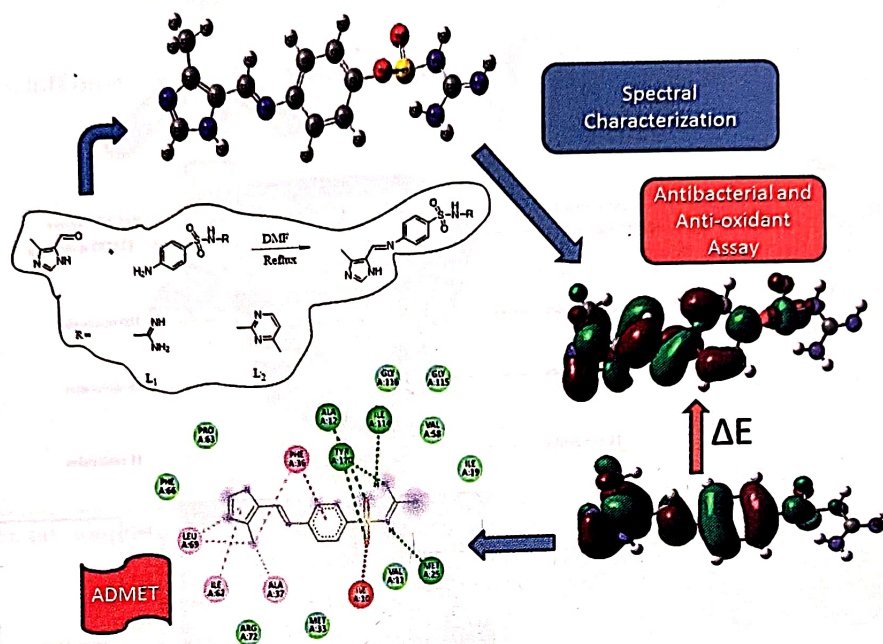
This work describes controlled supramolecular pH-dependent self-assembly of OPP-1 in water. The solution-based aggregation has been studied by UV-Vis absorption spectroscopy in the pH range 3.0-11.0. Fluorescence spectroscopy has been used to study AIE-activity, which typically shows J-type aggregates in basic pH. Morphology has been characterised by SEM analysis. Typically, in acidic media OPP-1 assembles into rod-like structures and in basic media it assembles into worm-like structures.



Nilesh M Gosavi, Salman A L Shaikh, Latesh K Nikam & Sheshanath V Bhosale\*

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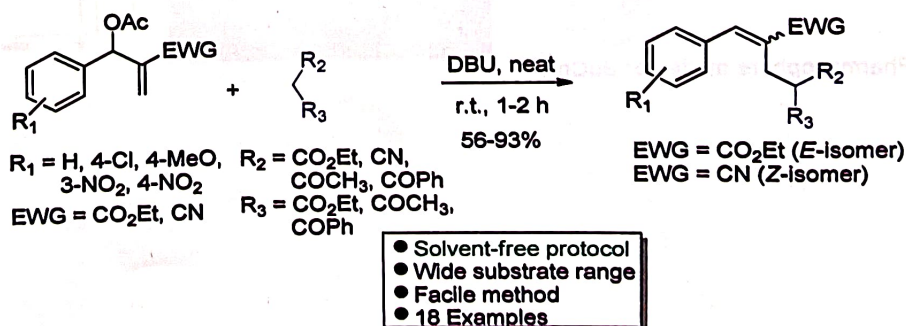
213 Synthesis and characterization of (*E*)-*N*-carbamimidoyl-4 and (*E*)-4-benzenesulfonamides; biological study, DFT, molecular docking, and ADMET predictions



Adeleke A Adeniyi\*, Abdullahi O Sobola, Mutu O Sowemimo, Gbolahan S Towolawi & Ridwan Sulamon

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225 DBU-mediated C-C bond formation between Baylis-Hillman acetates and active methylene compounds

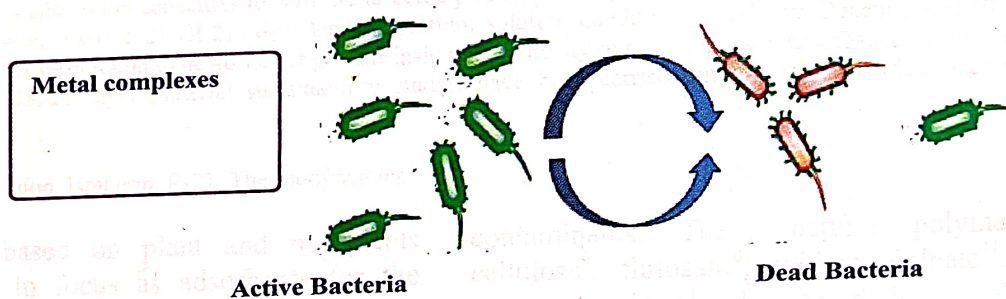
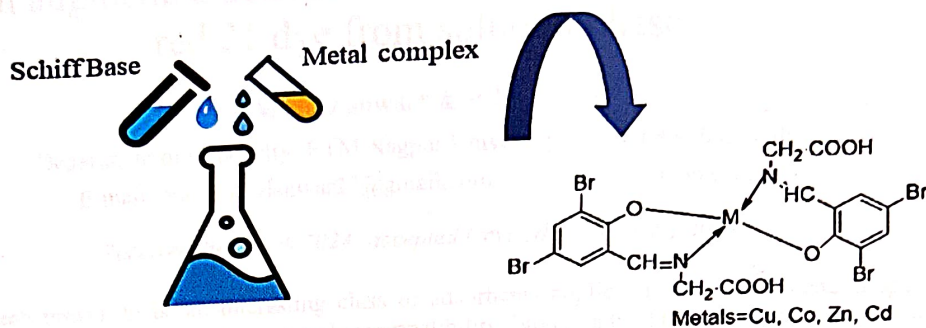


Sonam Tashi Khom, Pranjit Salkia & Nagendra Nath Yadav\*

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