

**INVESTIGATION OF EXPIRE DRUG ON CORROSION INHIBITION OF  
ALUMINIUM METAL IN HYDROCHLORIC ACID**

**Dissertation**

**Submitted to Bharathiar University in partial fulfillment of the requirement  
for the award of the degree of**

**MASTER OF SCIENCE IN CHEMISTRY**

Done by

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College with potential of excellence (UGC)]*

**COIMBATORE – 641 029**

**March – 2021**



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**Dissertation**

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**SYNTHESIS AND CHARACTERISATION OF GRAPHENE FROM  
NATURAL CARBON SOURCE**

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**SYNTHESIS AND CHARACTERIZATION OF NICKEL COMPLEX  
WITH LAURIC ACID AND HYDRAZINE AS LIGAND**

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**SYNTHESIS AND CHARACTERIZATION OF NICKEL COMPLEX  
WITH PHENOXY ACETIC ACID AND HYDRAZINE AS LIGAND**

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# **SYNTHESIS AND CHARACTERISATION OF GRAPHENE FROM PALM SHELL**

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**SYNTHESIS, GROWTH AND CHARACTERISATION OF  
2-AMINOPYRIDINIUM-GLYCINATE ORGANIC CHARGE TRANSFER  
COMPLEX**

**Dissertation**

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**March – 2021**



**A ONE-POT MULTICOMPONENT SYNTHESIS OF  
DIHYDROPYRIMIDINONE / THIONE DERIVATIVES VIA BIGINELLI  
REACTION**

**Dissertation**

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**MARCH – 2021**



# **“PREPARATION AND CHARACTERIZATION OF CADMIUM FERRITE NANOPARTICLES FROM HYDRAZINE MIXED METAL CARBOXYLATE PRECURSORS”**

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MARCH 2021



**MICROWAVE ASSISTED SYNTHESIS OF DIHYDROPYRIMIDINONE  
DERIVATIVES FROM o-NITROBENZALDEHYDE AND  
p-CHLOROBENZALDEHYDE**

**Dissertation**

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# **SYNTHESIS OF DIHYDROPYRIMIDINONES VIA BIGINELLI MULTI – COMPONENT REACTION UNDER MICROWAVE IRRADIATION**

**Dissertation**

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# **WATER QUALITY ANALYSIS IN AQUARIUM WATER**

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**SYNTHESIS AND CHARACTERIZATION OF A NEW MONOMERIC ZINC  
PICOLINATE CONTAINING AMINOGUANIDIUM CATION**

**Dissertation**

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**SYNTHESIS AND CHARACTERIZATION OF AMINOGUANIDIUM  
CALCIUM(II) PICOLINATE MONOHYDRATE**

**Dissertation**

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**“PREPARATION AND CHARACTERIZATION OF  
ZINC FERRITE NANOPARTICLES FROM  
HYDRAZINE MIXED METAL CARBOXYLATE  
PRECURSORS”**

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**PREPARATION OF NEW TETRAVALENT AMINOGUANIDIUM METAL  
COMPLEX DERIVED FROM PYRIDINE-2 CARBOXYLIC ACID**

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**SYNTHESIS, GROWTH AND CHARACTERISATION OF 2-  
AMINOPYRIDINIUM-CROTONATE ORGANIC CHARGE TRANSFER  
COMPLEX**

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# **WATER QUALITY ANALYSIS IN AQUARIUM WATER**

## **Dissertation**

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**SYNTHESIS AND CHARACTERIZATION OF 2,5-BIS[(FURAN-2-YL)METHYLIDENE]CYCLOPENTAN-1-ONE AND 2,6-BIS[(4-METHOXYPHENYL)METHYLIDENE]CYCLOHEXAN-1-ONE**

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**SYNTHESIS AND CHARACTERIZATION OF 2,7-BIS[(4-METHOXYPHENYL)METHYLIDENE]CYCLOHEPTAN-1-ONE AND 2,6-BIS[(4-METHOXYPHENYL)METHYLIDENE]CYCLOHEXAN-1-ONE**

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**SYNTHESIS AND CHARACTERIZATION OF 2,6-BIS[(FURAN-2-YL)METHYLIDENE]CYCLOHEXAN-1-ONE AND 2,5-BIS[(4-METHOXYPHENYL)METHYLIDENE]CYCLOPENTAN-1-ONE**

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**SYNTHESIS AND CHARACTERIZATION OF 2,6-BIS[(2-NITROPHENYL)METHYLIDENE]CYCLOHEXAN-1-ONE AND 2,5-BIS[(4-METHYLPHENYL)METHYLIDENE]CYCLOPENTAN-1-ONE**

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**SYNTHESIS AND CHARACTERIZATION OF 2,5-BIS[(2-NITROPHENYL)METHYLIDENE]CYCLOPENTAN-1-ONE AND 2,5-BIS [(2-CHLOROPHENYL)METHYLIDENE]CYCLOPENTAN-1-ONE**

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**SYNTHESIS AND CHARACTERIZATION OF CHARGE  
TRANSFER COMPLEX: 8-HYDROXYQUINOLIUM-3-  
NITROBENZOATE**

**Dissertation**

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**SYNTHESIS AND CHARACTERIZATION OF CHARGE TRANSFER  
COMPLEX: 8-HYDROXYQUINOLIUM PICOLINATE**

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# **WATER QUALITY ANALYSIS IN AQUARIUM WATER**

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**SYNTHESIS AND CHARACTERIZATION OF  
UREA SUCCINIC ACID SINGLE CRYSTALS**

**Dissertation**

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**SYNTHESIS AND SPECTRAL STUDIES OF 2-AMINO-1-(2,3-DIHYDROXY-  
PHENOXY)-PYRIDINIUM CRYSTAL**

**A PROJECT REPORT**

**SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS  
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**SYNTHESIS AND SPECTRAL STUDIES OF 2-AMINO-1-(2-AMINO-4-CARBAMOYL-BUTYRYLOXY)-PYRIDINIUM CRYSTAL**

**A PROJECT REPORT**

**SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS  
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