

SYNTHESIS AND CHARACTERISATION OF CoO NANOPARTICLES USING SINGLE SOURCE PRECURSOR

Dissertation

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

MASTER OF SCIENCE IN CHEMISTRY

Done by

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**PG & RESEARCH DEPARTMENT OF CHEMISTRY
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COIMBATORE - 641 029

April – 2023

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Dissertation

Submitted to Bharathiar University in partial fulfilment of the requirement for the award of
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Dissertation

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April – 2023

**MICROWAVE ASSISTED SYNTHESIS OF DIHYDROPYRIMIDINONE
DERIVATIVES FROM m-NITROBENZALDEHYDE AND
CHINNAMALDEHYDE**

Dissertation

**Submitted to Bharathiar University in partial fulfillment of the requirement for the award
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COIMBATORE – 641 029

APRIL– 2023

**A ONE-POT MULTICOMPONENT SYNTHESIS OF
DIHYDROPYRIMIDINONES FROM CINNAMALDEHYDE**

Dissertation

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APRIL– 2023

**AN EFFICIENT THREE COMPONENT ONE-POT SYNTHESIS OF
DIHYDROPYRIMIDINONE/THIONE DERIVATIVES VIA BIGINELLI
REACTION**

Dissertation

**Submitted to Bharathiar University in partial fulfillment of the requirement for the award
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APRIL– 2023

**SYNTHESIS OF DIHYDROPYRIMIDINONE/ THIONE VIA BIGINELLI
MULTICOMPONENT REACTION UNDER MICROWAVE CONDITIONS**

Dissertation

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APRIL– 2023

**BIS-HYDRAZINE COBALT (II) BENZENE SULPHONATE
HYDRATES: PREPARATION, SPECTRAL AND THERMAL STUDIES**

Dissertation

**Submitted to Bharathiar University in partial fulfilment of the requirement for the
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APRIL 2023

**SYNTHESIS AND CHARACTERIZATION OF BIS
HYDRAZINE CADMIUM (II) BENZENE SULPHONATES
HYDRATES BY IN-SITU METHOD**

Dissertation

**Submitted to Bharathiar University in partial fulfilment of the requirement for
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APRIL 2023

**SYNTHESIS AND CHARACTERIZATION OF BIS
HYDRAZINE ZINC(II) BENZENE SULPHONATES
HYDRATES BY IN-SITU METHOD**

Dissertation

**Submitted to Bharathiar University in partial fulfilment of the requirement for
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APRIL 2023

**SYNTHESIS AND CHARACTERIZATION OF NICKEL(II)
COMPLEX DERIVED FROM BENZENE SULPHONIC
ACID AND HYDRAZINE HYDRATE**

Dissertation

**Submitted to Bharathiar University in partial fulfilment of the requirement for
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APRIL 2023

SYNTHESIS AND CHARACTERIZATION OF N-[3-(2-CHLOROPHENYL)-1-PHENYLPROPAN-1-ONE] THIOSEMICARBAZIDE AND ITS Zn(II) COMPLEX

Dissertation

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APRIL– 2023

SYNTHESIS AND CHARACTERIZATION OF N-[3-(2-CHLOROPHENYL)-1-PHENYLPROPAN-1-ONE]THIOSEMICARBAZIDE AND ITS Co(II) COMPLEX

Dissertation

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APRIL– 2023

SYNTHESIS AND CHARACTERIZATION OF N-[3-(2-CHLOROPHENYL)-1-PHENYLPROPAN-1-ONE]SEMICARBAZIDE AND ITS Cd(II) COMPLEX

Dissertation

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Dissertation

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APRIL– 2023

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Dissertation

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APRIL– 2023

**SYNTHESIS AND CHARACTERIZATION OF
8-HYDROXYQUINOLNIUM-3-NITROBENZOATE
CRYSTAL**

Dissertation

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April-2023

**SYNTHESIS AND CHARACTERIZATION OF
8-HYDROXYQUINOLIN-1-IUM 4-NITROBENZOATE CRYSTAL**

Dissertation

Submitted to Bharathiar University in partial fulfillment of the requirement for the
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COIMBATORE -641029

April-2023

SYNTHESIS AND CHARACTERIZATION STUDY OF 2-AMINOPYRIDINIUM-3-NITROBENZOATE CRYSTAL

Dissertation

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**SYNTHESIS AND CHARACTERIZATION OF
2-METHYL IMIDAZOLIUM-3-NITROBENZOATE CRYSTAL**

Dissertation

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**SYNTHESIS AND CHARACTERIZATION OF
2-METHYLIMIDAZOLIUM-4-NITROBENZOATE
CRYSTAL**

Dissertation

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COIMBATORE -641029

April-2023

DESIGN AND DEVELOPMENT FOR HYDROGEN EVOLUTION

Dissertation submitted to Kongunadu Arts and Science College affiliated to
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COIMBATORE – 641 029

APRIL 2023

NON PRECIOUS METAL OXIDE FOR GREEN HYDROGEN GENERATION

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APRIL 2023

**GREEN SYNTHESIS OF COPPER FERRITE NANOPARTICLES
USING SAMANEA SAMAN EXTRACT, IT'S
CHARACTERIZATION AND ANTIBACTERIAL ACTIVITY**

Dissertation

Submitted to Bharathiar University in partial fulfillment of the requirement for the
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April-2023

**GREEN SYNTHESIS OF MANGANESE FERRITE NANOPARTICLES
USING *SAManea SAMAN*, ITS CHARACTERIZATION AND
ANTIBACTERIAL ACTIVITY**

Dissertation

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COIMBATORE -641029

April-2023

**A FACIAL ONE POT MULTICOMPONENT SYNTHESIS OF NEW
DISPIROHETEROCYCLIC QUINOLINE THROUGH 1,3 DIPOLAR
CYCLOADDITION**

Dissertation

**Submitted to Bharathiar University in partial fulfillment of the requirement for the award of the
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APRIL– 2023

**A CONVERGENT ONE POT MULTICOMPONENT SYNTHESIS OF NEW
DISPIROHETEROCYCLIC QUINOLINE THROUGH 1,3 DIPOLAR
CYCLOADDITION**

Dissertation

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