GREEN SYNTHESIZED MAGNESIUM OXIDE NANOPARTICLE FOR THE ELECTROCHEMICAL DETECTION OF THEOPHYLLINE

A project report submitted in partial fulfilment of the requirement for degree of

MASTER OF SCIENCE IN CHEMISTRY

SUBMITTED BY

B. UMMUL SABIYA AMMAL

(REG NO: 22MCH0017)

Under the Supervision of

Mrs. N. PRIYA

Assistant Professor

DEPARTMENT OF CHEMISTRY

(Recognized by Under DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

KILAKARAI– 623517, TAMIL NADU, INDIA.

APRIL 2024

ELECTRODEPOSITION OF Zn-Ni/La_2O_3 COMPOSITE ON MILD STEEL

Submitted to the

ALAGAPPA UNIVERSITY

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

Ms. G. AARTHI

(Reg. No: 22MCH0002)

Project work carried out under the guidance of

Dr. M. JAYAKUMAR
(Senior Scientist)

Electroplating and Metal Finishing Division,
CSIR-Central Electrochemical Research Institute,
Karaikudi, Tamilnadu-630003.

DEPARTMENT OF CHEMISTRY,

RECOGNISED BY DBT UNDER STAR COLLEGE SCHEME,

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN,

(An Autonomous Institution)
KILAKARAI - 623517.

SUPER HYDROPHOBIC COATING USING ZINC OXIDE NANOPARTICLES

Dissertation submitted in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN CHEMISTRY

By

M. AAFRIN AYISHA

REG NO: 22MCH0001

Under the Supervision of

Ms. K. AISHWARYA

Assistant professor, Department of Chemistry

DEPARTMENT OF CHEMISTRY
(Under DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

KILAKARAI - 623517, TAMILNADU, INDIA.

APRIL–2024

SYNTHESIS AND CHARACTERISATION OF CALCIUM SILICATE BIOCERAMIC DERIVED FROM PEANUT HUSK

A project report submitted in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN CHEMISRY

SUBMITTED BY

BALA SHANMATHI.P

(REG No: 22MCH0004)

Under the Guidance of

R.AMARAVATHI, M.Sc., B.Ed.,

ASSISTANT PROFESSOR

DEPARTMENT OF CHEMISTRY

DEPARTMENT OF CHEMISTRY

(Under DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

Kilakarai-623517, TAMIL NADU, INDIA.

APRIL 2024

Tungsten Bronze Supported Atomically Precise $[Au_{25}(PET)_{18}]$ Nanoclusters for Enhanced Hydrogen Evolution Reaction in Acidic Medium

Submitted to the

ALAGAPPA UNIVERSITY

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

Ms. CHARUMATHY

(Reg. No: 22MCH0005)

Project work carried out under the guidance of

Dr. C. Jeyabharathi,
(Senior Scientist)

Electroplating and Metal Finishing Division,
CSIR-Central Electrochemical Research Institute,
Karaikudi, Tamilnadu-630003.

DEPARTMENT OF CHEMISTRY,

RECOGNISED BY DBT UNDER STAR COLLEGE SCHEME,

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN,

KILAKARAI- 623517

APRIL 2024

ACTIVATED CARBON MATERIAL FOR THE ELECTROCHEMICAL DETECTION OF THEOPHYLINE

A project report submitted in partial fulfilment of the requirement for Degree of

MASTER OF SCIENCE IN CHEMISTRY

SUBMITTED BY

A. PON SWETHA

(REG NO: 22MCH0013)

Under the Supervision of

Mrs. R. Amaravathi

Assistant Professor

Department of chemistry

DEPARTMENT OF CHEMISTRY

(Recognized by DBT under Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

KILAKARAI-623517, RAMANATHAPURAM DISTRICT,

TAMILNADU, INDIA.

APRIL 2024.

DEVELOPMENT OF NAPKIN USING *PROSOPIS JULIFLORA* FIBRE AND *KAPPAPHYCUS ALVAREZII* HYDROGEL AS CHEMICAL FREE ABSORBENT

Dissertation submitted in partial fulfillment of the requirement for the degree

MASTER OF SCIENCE IN CHEMISTRY

By

R.RISKA FATHIMA

22MCH0014

Under the Supervision

N.PRIYA

Head Incharge

Department of Chemistry

DEPARTMENT OF CHEMISTRY

(Under DBT star college scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

KILAKARAI_623517,

TAMILNADU, INDIA.

April2024

SYNTHESIS AND CHARACTERISATION OF CALCIUM PHOSPHATE BIOCERAMIC DERIVED FROM MUREX

A project report submitted in partial fulfillment of the requirement for the degree

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

KABINI.K

(REG NO: 22MCH0006)

UNDER THE GUIDANCE OF

AMARAVATHI.R

ASSISTANT PROFESSOR,

DEPARTMENT OF CHEMISTRY.

DEPARTMENT OF CHEMISTRY

(Under DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEM

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Kilakarai – 623517, Ramanathapuram District, Tamil Nadu.

APRIL 2024

UNLEASHING NATURE HEALING POWER OF CALCIUM MAGNESIUM SILICATE BIOCERAMICS FOR BONE REGENERATION FROM NATURAL SOURCES

A project report submitted in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN CHEMISTRY

by

NAJEEBA M

(REG No: 22MCH0010)

Under the Supervision of

AISHWARYA K

ASSISTANT PROFESSOR, DEPARTMENT OF CHEMISTRY

DEPARTMENT OF CHEMISTRY

(Under DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

KILAKARAI – 623517, TAMIL NADU, INDIA.

APRIL 2024

DEVELOPMENT OF HIGHLY SELECTIVE ELECTROCHEMICAL BIOSENSOR FOR FISH QUALITY ANALYSIS USING Li-$CaCu_2O_3$ NANOPARTICLES MODIFIED ELECTRODE

A project report submitted in partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE IN CHEMISTRY

By

N. ANUSHIYA

22MCH0003

Under the Supervision of

V.S. Subashini

Head. Department of Chemistry

Department of Chemistry

Recognized by DBT under Star College Scheme, Ministry of Science and Technology, Govt of India.

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

An Autonomous Institution Affiliated to Alagappa University, Karaikudi.

Kilakarai – 623517, Ramanathapuram District.

April 2024

GREEN SYNTHESIS AND CHARACTERIZATION OF ZINC OXIDE NANOPARTCLES USING *TAMARINDUS INDICA* FRUIT SHELL EXTRACT

Dissertation submitted in partial fulfillment of the requirement for the degree

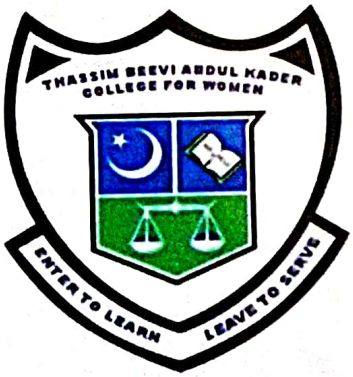
MASTER OF SCIENCE IN CHEMISTRY

By

MAHA LAKSHMI A
(REG NO:22MCH0009)

Under the supervision of

Mrs. N. PRIYA
Assistant Professor
Department of Chemistry



DEPARTMENT OF CHEMISTRY

(Recognised by DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

Kilakarai-623517, Ramanathapuram District, Tamil Nadu.

APRIL 2024

Fish quality analysis using Highly Sensitive Electrochemical determinatio Tyrosine based on Magnesium doped Hydroxyapatite Nanoparticles modi glassy carbon electrode

A project report submitted in partial fulfilment of the requirement for the degree of

MASTER OF SCIENCE IN CHEMISTRY

By

P. LAVANYA

22MCH0008

Under the Supervision of

Ms. A Mariam Aysha

Assistant professor

Department of Chemistry

DEPARTMENTOFCHEMISTRY

(Under DBT Star College Scheme),

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

Kilakarai – 623517, Ramanathapuram District

April2024

THE REMOVAL OF SYNTHETIC DYE FROM AQUEOUS SOLUTION USING BY *MUSA AUCMINATA, CITRUS SINENSIS AND PUNICA GRANATUML.*

A project report submitted in partial fulfilment of the requirement for the degree

of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by

SUPREEDA. M (REG NO: 18MCH0013)

UNDER THE GUIDANCE OF

JANANI. J. M.Sc.,

ASSISTANT PROFESSOR

DEPARMENT OF CHEMISTRY

DEPARTMENT OF CHEMISTRY

(Under DBI Star Collage Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(A Minority Institution Sponsored by Seethakathi Trust, Chennai)

An Autonomous Institution Affiliated to Alagappa University, Karaikudi Accredited by NAAC with A Grade (CGPA: 3.16) ISO 9001:2015 Certified Institution Recognized by UGC under 2(f) and12(B) Kilakarai-623517, Ramanathapuram District, Tamil Nadu.

PREPARATION OF ORGANIC FERTILIZER BLEND FROM MUSA ACMINATA RED DACCA BANANA PEEL

A project submitted in partial fulfillment of the requirement or the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

SHOBHANA R

(REG NO: 22MCH0016)

Under the supervision of

Ms. J. JANANI

ASSISTANT PROFESSOR

DEPARTMENT OF CHEMISTRY

DEPARTMENT OF CHEMISTRY

(Under DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(A Minority Institution Sponsored by Seethakathi Trust, Chennai)

An Autonomous Institution Affiliated to Alagappa University, Karaikudi

Accredited by NAAC with A Grade (CGPA: 3.16)

ISO 9001: 2015 Certified Institution Recognized by UGC under 2(f) and 12(B)

Kilakarai - 623517, Ramanathapuram District, Tamil Nadu.

APRIL - 2024

INHIBITION OF MILD STEEL CORROSION IN AN ACIDIC MEDIUM USING ZnO NANOPARTICLES

A project report submitted in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN CHEMISTRY

BY

NANDHINI C.B

22MCH0011

Under the supervision of

M.SANGEETHA

ASSISTANT PROFESSOR, DEPARTMENT OF CHEMISTRY

DEPARTMENT OF CHEMISTRTY

(Under DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

KILAKARAI-623517, TAMIL NADU,INDIA

April 2024

ENHANCING CORROSION RESISTANCE BY ELECTROCHEMICAL COATING

Dissertation submitted in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN CHEMISTRY

By

A.NOORUL FARSHANA

REG No:22MCH0012

Under the Supervision of

Ms A Mariam Aysha

Assistant professor

DEPARTMENT OF CHEMISTRY

DEPARTMENT OF CHEMISTRY

(Under DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

KILAKARAI - 623517, TAMILNADU, INDIA.

APRIL – 2024

A NOVEL FLUORESCENT SENSOR FOR EFFECTIVE DETECTION OF AN ENDOCRINE DISTRUPTOR (TRICLOCARBAN) USING CARBON DOTS DERIVED FROM *Gracilaria salicornia*

A project report submitted in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN CHEMISTRY

By

A. KISHORE JAHAN

REG No: 22MCH0007

Under the Supervision of

V.S. SUBASHINI

ASSISTANT PROFESSOR, DEPARTMENT OF CHEMISTRY

DEPARTMENT OF CHEMISTRY

(Under DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

KILAKARAI-623517, RAMANATHAPURAM DISTRICT,

TAMILNADU, INDIA.

APRIL 2024

NANO PESTICIDAL POTENTIAL OF SILVER NANOPARTICLES SYNTHESIZED FROM PSIDIUM GUAJAVA ENRICHED WITH AZADIRACHTA INDICA OIL FOR PEST CONTROL

A project report submitted in partial fulfillment of the requirement for the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

D. SETHUMADAVADEVI

(REG NO: 22MCH0015)

Under the supervision of

Ms. M. SANGEETHA

Assistant professor

Department of chemistry

DEPARTMENT OF CHEMISTRY

(Under DBT Star College Scheme)

THASSIM BEEVI ABDUL KADER COLLEGE FOR WOMEN

(An Autonomous Institution)

KILAKARAI – 623517, TAMIL NADU, INDIA

APRIL 2024