

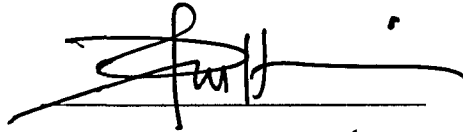
**OPTICAL PROPERTIES OF ZnO NANOSTRUCTURES PREPARED ON PSi
SUBSTRATES BY SOL-GEL IMMERSION METHOD**

SYED AZIZDZUL BIN SYED BAHARUDIN

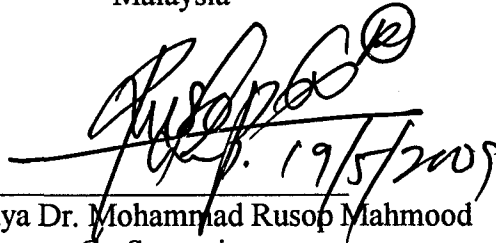
**Final Year Project Report Submitted in
Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science (Hons.) Physics in
the Faculty of Applied Sciences
University Technology MARA**

MAY 2009

This Final Year Project Report entitled “**Optical Properties of ZnO Nanostructures prepared on PSi Substrates by Sol-Gel Immersion Method**” was submitted by Syed Azizdul bin Syed Baharudin, in partial fulfillment of the requirements for the Degree of Bachelor of Science (Hons.) Environment Technology, in the Faculty of Applied Sciences, and was approved by

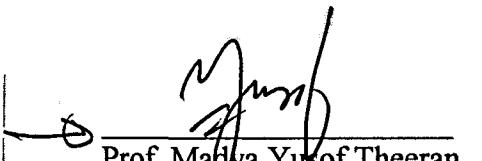


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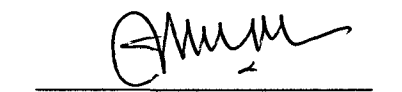


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ACKNOWLEDGEMENT

In the name of Allah, the most benevolent and most merciful

First and foremost, great thanks to Allah the Almighty for a giving me strength in completing my final year project thesis. This thesis could not have been completed without the contributions and guide from many people. I would like to express my sincere gratitude and appreciation to my supervisor, Assoc. Prof. Dr Saifollah Abdullah for the continuous guidance, valuable advice, and constructive comments. Not to forget for his kindness to tolerate with us in any difficult situation.

Secondly, I would like to thanks to my senior student, Suhaidah for giving me a lots of information and guiding me doing my thesis with a thousand of advices.

Thirdly, I would like to thanks to my family members for being there to support, motivate and encourage me in order to complete this thesis.

Finally, big thanks to people that helped me directly or indirect. Thank you for your support and kindness.

TABLE OF CONTENTS

	Page
AKNOWLEDGEMENT	iii
TABLE OF CONTENTS	iv
LIST OF TABLES	vii
LIST OF FIGURES	viii
LIST OF ABBREVIATIONS	ix
ABSTRACT	x
ABSTRAK	xi
CHAPTER 1: INTRODUCTION	
1.0 Introduction	1
1.1 Problem Statement	3
1.2 Objectives	4
1.3 Significants of Study	4
CHAPTER 2: LITERATURE REVIEW	
2.1 Zinc Oxide (ZnO)	5
2.1.1 Introduction	5
2.1.2 Zinc Oxide (ZnO) Nanostructures	6

ABSTRACT

The optical properties of ZnO Nanostructure is prepared by sol-gel immersion method at different temperature on Porous Silicon (PSi) substrate. Porous silicon (PSi) is produced from the Silicon (Si) by using electrochemical etching process. The ZnO solution is prepared by using the sol-gel immersion method. The growth of the ZnO nanostructure will be observed at different temperature range from 60°C until 100°C. The optical properties of the growth ZnO Nanostructure will be determine by using Photoluminescence spectrometer, XRD, and SEM