

Cyprus International University

Institute of Graduate Studies and Research

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I wish you all the best in your thesis, including this writing phase..

Prof. Dr. Osman YILMAZ

Director, Institute of Graduate Studies and Research

**POLYMERIZATION OF MONOISOCYANATES BY  
FREE RADICAL INITIATION WITH A NOVEL  
ROOM TEMPERATURE INITIATOR**

THESIS TITLE  
(16 pts, CAPITAL LETTERS,  
Centered, Single Spacing)

**ORHAN YILDIRIM**

STUDENT'S FULL NAME  
(As it appears on the transcript)  
(14 pts, CAPITAL LETTERS, Centered)

The diploma degree of your program.  
(14 pts, CAPITAL LETTERS)

**A THESIS FOR  
THE DEGREE OF MASTER OF SCIENCE (MSc)  
IN  
CHEMISTRY**

Name of the graduate program  
(14 pts, CAPITAL LETTERS, Centered)

Abbreviation of the diploma degree



**CYPRUS INTERNATIONAL UNIVERSITY  
INSTITUTE OF GRADUATE STUDIES AND RESEARCH**

**NICOSIA – 2023**

Year of the thesis defense date

Note that there is no page number in this page

**POLYMERIZATION OF MONOISOCYANATES BY  
FREE RADICAL INITIATION WITH A NOVEL  
ROOM TEMPERATURE INITIATOR**

Title of the thesis.  
(16 pts, CAPITAL LETTERS,  
Centered, Single Spacing)

**A THESIS SUBMITTED TO  
THE INSTITUTE OF GRADUATE STUDIES AND RESEARCH  
OF  
CYPRUS INTERNATIONAL UNIVERSITY**

**BY**

14 pts, CAPITAL LETTERS)

**ORHAN YILDIRIM**

(14 PTS, CAPITAL  
LETTERS)

**IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR  
THE DEGREE OF MASTER OF SCIENCE (MSc)  
IN  
CHEMISTRY**

**SUPERVISOR : PROF: DR: ALİ USANMAZ  
CO-SUPERVISOR: PROF. DR. KEMAL ALYÜREK**

(14 PTS, CAPITAL LETTERS)

**NICOSIA – 2023**

(14 PTS, CAPITAL LETTERS)

## THESIS APPROVAL CERTIFICATE

12 pts, single line  
spacing

The thesis study of Chemistry Program student Orhan Yıldırım with student number 1234567 titled “Polymerization Of Monoisocyanates By Free Radical Initiation With A Novel Room Temperature Initiator” has been approved with unanimity of votes by the jury and has been accepted as an MSc Thesis.

**Thesis Defense Date:** 22/12/2023

### Jury Members

### Signature

1st name:  
Chairperson

1) Prof. Dr. Savaş Yavuz  
Chair

.....

2nd name:  
Supervisor

2) Prof. Dr. Ali Usanmaz  
Supervisor

.....

3) Prof. Dr. Güngör Akgündüz  
Member

.....

4) Assoc. Prof. Dr. Kemal Alyürek  
Member

.....

5) Asst. Prof. Dr. Serpil Alsoy  
Member

.....

(12 pts, Title Case)

**Prof. Dr. Ali Usanmaz**  
Supervisor

.....

**Prof. Dr. Namık Kemal Uras**  
Head of Department / Program Coordinator  
Department of Chemistry

.....

**Prof. Dr. Osman Yılmaz**  
Director  
Institute of Graduate Studies and Research

.....

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## DECLARATION

**Name and Surname:** Orhan Yıldırım

**Title of the Thesis:** Polymerization Of Monoisocyanates By Free Radical Initiation With A Novel Room Temperature Initiator

**Supervisor(s):** Prof. Dr. Ali Usanmaz

**Year:** 2023

(12 pts, Not bold, Title Case)

I hereby declare that all information in this document has been obtained and presented by following the academic rules and ethical conduct. I also declare that, as required by these rules and conduct, I have fully cited and referenced all material and results that are not original to this work.

I hereby declare that the Cyprus International University, Institute of Graduate Studies and Research is allowed to store and make available electronically the present thesis.

This thesis will be published *via* CIU Library;

- ☐ Immediately;
- ☐ 1 year after;
- ☐ 2 years after;
- ☐ 3 years after;
- ☐ Never.

Upon submission to the Cyprus International University, Institute of Graduate Studies and Research.

**Date:** .....

Use a pen with blue ink  
in the day of submission

**Signature:** .....

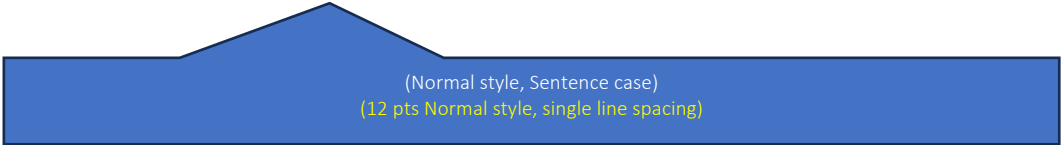
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## ACKNOWLEDGEMENTS

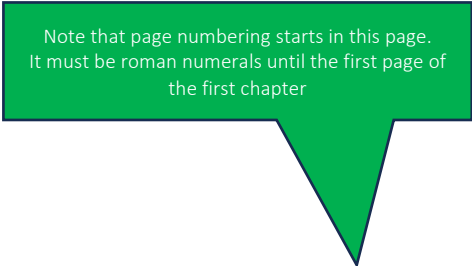
Primarily, I extend my heartfelt gratitude to my PhD supervisors, Professor Xui Lung and Professor Fred Samoss, for their unwavering support, guidance, and encouragement throughout the entire doctoral journey.

I am also immensely grateful for the exceptional support of my lab mates, who have been a constant source of motivation. Ali, your late-night phone calls helped me to navigate self-doubt with resilience. And Maria, your enthusiasm and upbeat personality made even the longest hours in the lab enjoyable.

Finally, I want to express my profound gratitude to my family, whose unwavering belief in my abilities and unwavering support have been instrumental in my accomplishments. Your encouragement has been an integral force driving my achievements. To my mom, dad, and Mustafa: Thank you for everything. I dedicate this PhD thesis to you with love and admiration.



(Normal style, Sentence case)  
(12 pts Normal style, single line spacing)



Note that page numbering starts in this page.  
It must be roman numerals until the first page of  
the first chapter

## ABSTRACT

### POLYMERIZATION OF MONOISOCYANATES BY FREE RADICAL INITIATION WITH A NOVEL ROOM TEMPERATURE INITIATION

(12 pts, CAPITAL LETTERS, Single Spacing)

**Orhan Yıldırım**  
**MSc Thesis in Chemistry**  
**Supervisor: Prof. Dr. Ali Usanmaz**  
**Co-Supervisor: Prof. Dr. Kemal Alyürek**

(12 pts, Bold, single spaced,)

**2023, 157 pages**

Minimum 200,  
maximum 400  
words

(12 pnts Normal  
style, single line  
spacing)

n-Butyl isocyanate (nBIC) was polymerized in bulk by the Pruitt–Baggett adduct (PBA) at  $-23$ ,  $0.0$ , and  $25.0^{\circ}\text{C}$ . Polymerization was accompanied by trimerization to the cyclic isocyanurates at all temperatures. Spectroscopic evidence supported the nylon-1 structure for both trimer and polymer. The polymer/trimer ratio and the molecular weight of produced polymers were found to increase with decreasing temperature. The Pruitt–Baggett catalyst (PBC), which is the reaction product of (PBA +  $\text{H}_2\text{O}$ ) system, also polymerized nBIC, but with a relatively slower rate. In aromatic and etheric solutions, nBIC was only trimerized by PBA. Copolymerization of nBIC with propylene oxide by PBA and PBC failed. Some selected monoisocyanates were also polymerized by PBA.

**Keywords:** Allyl Polymerization, Catalysis, Free radical polymerization, Initiation, Polymerization, Polymers, Temperature dependence

Maximum 7 keywords in alphabetical order  
(12 pts, not bold, Capitalize first letter of each keyword)

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be right aligned

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the page numbers

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(List of Figures style, Times New Roman, 12 pts, 1.5 line spacing)

## ABBREVIATIONS

Abbreviation (12 pts, **Bold**)  
Example: **IT**

Abbreviation for  
(12 pts, Normal, in parenthesis)  
Example: (Information Technology)

Sort the abbreviations in alphabetical order

<b>CIU</b>	(Cyprus International University)
<b>EDTA</b>	(Ethylene Diamine Tetraacetic Acid)
<b>PBA</b>	(Pruit-Bagett Adduct)
<b>PVC</b>	(Polyvinylchloride)
<b>STP</b>	(Standard Temperature and Pressure)

# CHAPTER ONE

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Paragraphs must have no indentation. They must be justified from both sides.

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### **Sub-Subtitles**

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## **CHAPTER TWO**

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#### **3.4.3 TYPE YOUR SUBTITLE HERE**

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## REFERENCES

Examples to  
JOURNAL  
ARTICLES

- Authors Publication year Title of the Article
- Bass, B. M. and Avolio, B. J. (1994). Transformational leadership and organizational culture. *The International Journal of Public Administration*, 17(3-4), 541-554.
- Title of the Journal (Italic) Volume number Issue number(s) Page number(s)
- Betts, S. C. (2005). Contingency theory: science or technology? *Journal of Business & Economics Research (JBER)*, 1(8).
- Dii GmbH, (2013). *Desert Power: Getting Started*. The manual for renewable electricity in MENA Full Report. [Online] Munich: Dii GmbH, pp.1-262. Available at: [https://www.db.com/cr/en/docs/Desert-Power-Getting-Started-Full-ReportEnglishScreen\(1\).pdf](https://www.db.com/cr/en/docs/Desert-Power-Getting-Started-Full-ReportEnglishScreen(1).pdf) [Accessed 2 Apr. 2017].
- Eisenbeis, S. A., & Boerner, S. (2013). A double-edged sword: Transformational leadership and individual creativity. *British Journal of Management*, 24(1), 54-68.
- Franco-Santos, M., Kennerley, M., Micheli, P., Martinez, V., Mason, S., Marr, B. and Neely, A. (2007). Towards a definition of a business performance measurement system. *International journal of operations & production management*.
- Hilton, S. K., Arkorful, H., & Martins, A. (2021). Democratic leadership and organizational performance: the moderating effect of contingent reward. *Management Research Review*.
- Iglinski, B., Buczkowski, R., Cichosz, M., Iglinska, A. and Plaskacz-Dziuba, M. (2015). SWOT analysis of the renewable energy sector in Poland. Case study of Wielkopolskie region. *Journal of Power Technologies*, 95(2), 143-157.

Example to an  
ONLINE  
JOURNAL  
ARTICLES

- Isaidi, K., Rehman, M. and Amamri, M. (2018). The causal nexus between economic growth and energy consumption obtained from petroleum coal and other resources: New evidence from global panel of 53 countries. *Cities and Society*, [online] 38, pp.49-561. Available at: <http://www.sciencedirect.com> [Accessed 17 Dec. 2018].

Volume /issue  
number

Date you accessed this  
online article

Page number(s)

Example to a  
BOOK

- Jarrant, J. S. (1975). Principles and practice of education. London: Longman
- Klum, E., Achen, B., Dræby, I. ve Jensen, I. (2008). Cultural intelligence: The art of leading cultural complexity. London: Middlesex University Press.

Sort the references in  
alphabetical order of the 1<sup>st</sup> author

City of publication

Publisher's name

KEnergy.gov. (2017). *Hydrothermal Resources | Department of Energy*. [Online]  
Available at: <https://energy.gov/eere/geothermal/hydrothermal-resources>  
[Accessed 25 Mar. 2017].

Full internet address of the resource after “[Online] Available at:”

New Energy Realities. (2017). [online] Wales: World Energy Council 2017, pp.1-40.  
Available at: <http://file:///C:/Users/user/Pictures/1.-World-Energy-Issues-Monitor-2017-Full-Report.pdf> [Accessed 1 Apr. 2017].

WIEA Bioenergy, (2012). Energy recovery from renewable content of waste:  
incentives and methodology for analysing biogenic content of mixed waste.  
Task 36. [online] Milano: RSE S. p. A. Ricerca sul Sistema Energetico – RSE  
S.p.A., pp.1-68. Available at: <http://task36.ieabioenergy.com/wp-content/uploads/2016/06/Energy-recovery-from-the-renewable-content-of-waste-2.pdf> [Accessed 1 Apr. 2017].

1.27 cm (half inch) hanging of paragraphs

## APPENDIX A

### IN-TEXT CITATION EXAMPLES

Example to citation for a reference with **single author**

... best way to organize depends on the nature of the environment to which the organization relates (Betts, 2003). The agile organization is more...

The last name of the first author  
No initials of the first and middle names

The year of publication

Example to citation for a reference with **two authors**

By observing the work and abilities of transformational leaders, managers acquire knowledge and creativity skills (Eisenbeiss and Boerner, 2013).

Seperation of authors' last names by "**and**"  
(Do not use "&" )

Example to a citation for a reference **with three authors.**

...perform contingent reward and constructive transaction between the members and the leader (Hilton, Arkorful and Martins, 2021). Management-by-exception, on the other hand, is a corrective transaction between members and leaders....

"and" before the last author

Example to a citation for a reference with more than three authors.  
This citation is for a reference in which there are five authors: (Iglinski, B.,  
Buczkowski, R., Cichosz, M., Iglinska, A. and Plaskacz-Dziuba, M.)

... it has been reported (Iglinski *et al*, 2015) that this phenomenon can be used to  
develop solutions in ....

First author

"et al" means "others", or "his/her co-workers"  
(*italic*)

Example to a citation to a reference if the author's name is mentioned in the sentence.

... The fundamental claim of contingency theory, as stated by Betts (2003), is that an  
organization's organizational structure is influenced by its environment. Similarly,  
organizational theorists in contingency theory argue t

Author's last name is out of the parenthesis

Example to a citation for a reference with more than three authors when the  
authors are mentioned within the sentence

... it has been reported by Iglinski *et al* (2015) that this phenomenon can be used to  
develop solutions in .....

Only the year of publication is in parenthesis only

## APPENDIX B

### SAMPLE EQUATIONS

Equation must be centered

Equation number must be right aligned (Not bold, not italic)

You can copy the whole paragraph including the this equation and paste it to your own text followed by editing the equation and the equation number.

(ERASE THIS BOX BEFORE COPYING)

Where, n = Sample size, N = Population, and  $\alpha$  = 95% confidence interval.

Giving an equation number for sample applications of an equation or derivation steps is optional

$$n = \frac{N}{1+N(\alpha)^2} \dots\dots\dots (3.1)$$

$$n = \frac{N}{1 + N(\alpha)^2}$$

$$n = \frac{3361}{1+3361(0.05)^2}$$

$$n = 357.46$$

Chapter number

Eq. Number in that chapter

Dots (...) must lead the equation numbers

Chemical equations are treated similarly





## APPENDIX C

### SAMPLE TABLES

Table number  
(12 pts, Left aligned, **Bold**)

Table title  
(12 pts, not bold)

**Table 2.1:** Wind plants capacity and growth rate

Position	Country	Capacity		Growth Rate 2015 [%]
		Total	Added	
1.	China	2015148,0 00	32,970	29.0
2.	United States	74,347	8598	13.1
3.	Germany	45,192	4919	Font size = 10 points, 1.5 line spacing inside the table and its footnotes
4.	Poland	5100	1266	
		5079	126	
6.	Denmark	5064	217	3.7
7.	Turkey	4718	955	25.4
	Rest of the World	40,800	5000	14.0

(Source: Igliński, *et al*, 2016)

Source (reference) of a table (if any) must be indicated as shown here  
(12 pts, Centered)

A table is cited within the text as exemplified below:

.... Wind plants capacity and growth rates are shown in **Table 2.1** that has been...

**Table 4.7:** ANOVA results

Model	Sum of Squares	df	Mean Square	F	Sig.
Regression	141.939	2	70.969	182.715	0.000 <sup>a</sup>
1 Residual	116.136	299	0.388		
Total	258.075	301			

In tables larger than one page, the same table number and description should be written on the second page. The word "continued" is written in between the table number and its description as exemplified below. (See the next page)

**Table 4.7 (Continued):** ANOVA result

Residual-2	Type (Continued) if the table continues from the first page	
Total-2	259.8	303

a. Dependent Variable: POP

b. Predictors: (Constant), OA, TRFL, InteractionTerm

Draw a borderline after the footnotes as well

## APPENDIX D

### SAMPLE FIGURES

A figure is cited within the text as exemplified here:

... As shown in **Figure 2.3** only 13.8% of the energy supplies is from renewable energy sources. The vast majority of the energy is produced from fossil sources ...

The figure must be centered

Framing a figure is optional but consistency is expected throughout the thesis

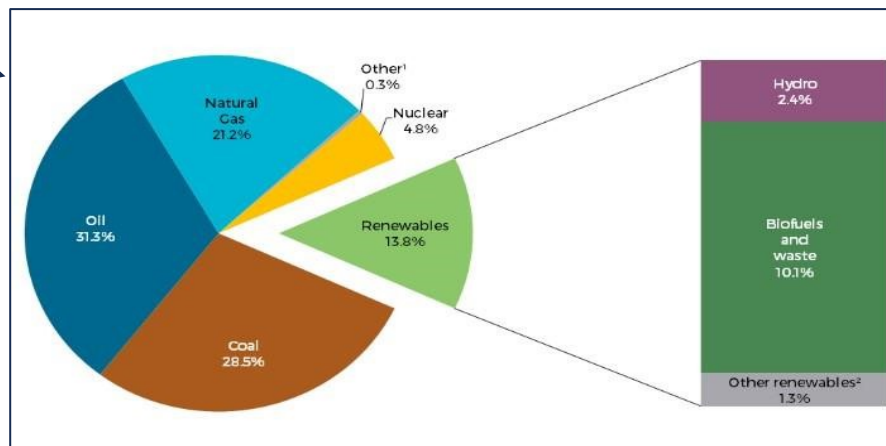


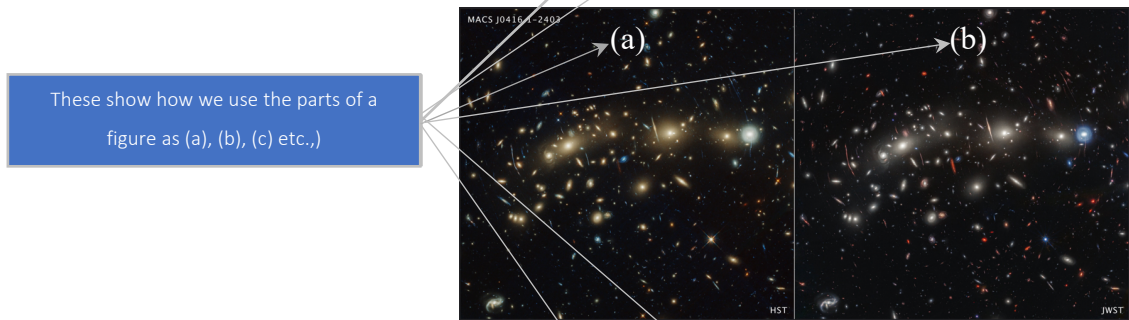
Figure caption is below the figure  
(12 pts, Centered)  
Figure number is bold  
Figure title is not bold

**Figure 2.3:** Overall primary energy supplies for 2022

(Source: Iea.org, 2022; Ahaei *et al*, 2023)

Source (reference) of a figure (if any) must be indicated as shown here  
(12 pts, Centered)

... side-by-side comparison of galaxy cluster MACS0416 as seen by the Hubble Space Telescope in optical light (**Figure 4.4 (a)**) and the James Webb Space Telescope in infrared light (**Figure 4.4 (b)**) reveals different details...



**Figure 4.4:** Same galaxy from two different space telescopes  
(a) Hubble, (b) James Webb

(Source:

<https://www.flickr.com/photos/nasawebbtelescope/53321377829/in/album-72177720305127361/>)