

OKAN AKIN



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EDUCATION

2012-Progress

Philosophy of Doctorate (PhD) İzmir Institute of Technology, Department of Chemical Engineering

Thesis: “Production of Value Added Chemicals under Sub-critical Water Conditions” (*Supervisor: Assist. Prof. Aslı Yüksel Özşen*)

2009-2012

Master of Science (MSc) İzmir Institute of Technology, Department of Engineering

Thesis: Effect of Organo-Modified Clay Addition on Properties of Polyhydroxy Butyrate Homo and Copolymers Nanocomposite Films (*Supervisor: Prof. Funda Tihminliođlu*)

Research Assistant in the projects:

“Preparation and Characterization of Poly (3-Hydroxybutyrate) Homo and Copolymer with Valerite’s Nanocomposite Films”, with Prof. Funda Tihminliođlu, Onur Gökbulut and Burcu Kaya (students), IZTECH, 2010 Spring

“Measurement of Barrier Properties of Epoxy/Polyester and Polyester Films For Powder Coating Applications” with Prof. Funda Tihminliođlu, Sinem Bostancı, Esengül İlhan 2010 spring , AKZO NOBEL, IZTECH,

“Investigation of Effect of Inorganic and Organic Reinforced PCL Composite Films on Crystallization Kinetics” with Prof. Dr. Devrim Balköse, Assoc. Prof. Serap Cesur, 2012 spring. IZTECH

- 2004-2009** **Bachelor of Science (BS)** İzmir Institute of Technology, Faculty of Engineering, Department of Chemical Engineering
(Instructional language is English)
Graduation Project: Lipase Enzyme Immobilization by Different Techniques and Their Activity in Olive Oil Hydrolysis *(Advisor: Prof. Dr .Selahattin Yilmaz)*
- 2001-2004** İzmir Buca Anatolian High School *(Instructional language is English)*
- 1997-2001** Bilecik Anatolian High School *(Instructional language is English)*

EXPERINCE

- 12.2010- present** Research Assistant, Chemical Engineering Department, İzmir Institute of Technology
- Teaching Assistant in the courses:**
- Engineering Design
 Process Dynamics and Control
 Chemical Engineering Laboratory I
 Chemical Engineering Laboratory III
 Thermodynamics I
 Chemical Design and Reactor Design
 Mathematical Modeling in Engineering
- 01.2012-09.2012** Scholarship Graduate Student 110M157 Project-Investigation of Effect of Inorganic and Organic Reinforced PCL Composite Films on Crystallization Kinetics
- 02.2010- 12.2011** Scholarship Graduate Student-108M335 Project-Protection of marble surfaces by using biodegradable polymers nanocomposites- The Scientific and Technological Research Council of Turkey
- 07.2008- 10.2008** Erasmus Internship Program, University of Alicante – Chemical Engineering Department, Spain
- 08.2007- 09.2007** Internship, Petkim Petrochemical Holding Corp.,İzmir
- 09.2006-09.2006** Researcher, European Researchers' Nights, İzmir

08.2005- 08.2005 Volunteer work, Interpreter, 23th Universiade 2005, İzmir Turkey

PUBLICATIONS

H. Oguzlu, O. Ozcalik, O. Akin, F. Tihminlioglu, “*Biodegradable Polymer Layered Silicate Nanocomposites and Developments in their Food Packaging Applicatons (Biyobozunur Polimer Tabakalı Silikat Nanokompozitler ve Gıda Ambalajı Uygulamaları Konusundaki Gelismeler)*”, Turkish Plastics Association (PAGEV) Journal of Plastics (Sector Journal), December 2010. Akin, I. Kocabas, E. Gil, J.C. Garcia Queseda “*Study of The Procesability of PVC Plastisols Containing a Poly (Hydroxybutyrate-Valerate) Copolymer)*”, Journal of Vinyl and Additive Technology, March 2012

PRESENTATIONS

Oral Presentations

O. Akin, F. Tihminlioglu, “Temperature Dependency of Water Vapor Permeability of Polyhydroxybutyrate /OMMT Nanocomposite Films”, 10th National Chemical Engineering Congress, Koç University-İstanbul, 2012

O. Ozcalik, H. Oguzlu, O. Akin, F. Tihminlioglu, “*Biodegradable polymer nanocomposite coatings for barrier applications*”, European Coatings Conference - "Biobased Coatings II", Berlin - Germany, 10 - 11 February 2011

O. Akin, F. Tihminlioglu, “*Preparation and Characterization of Polyhydroxybutyrate (PHB) Nanocomposite Films*”, 2nd Polymeric Composites Symposium-Exhibition And Brokerage Event (International Participation), İzmir Turkey, 26-28 October 2010

O. Akin, I. Kocabas, E. Gil, J.C. Garcia Queseda “*Study of The Procesability of PVC Plastisols Containing Poly (Hydroxybutyrate-Valerate) Copolymer)*”, Renewable Resources and Biorefineries 5, ICC Ghent-Belgium, June, 10-12, 2009

Poster Presentations

O. Akin, Funda Tihminlioglu, “Temperature Dependency of Water Vapor Permeability of Polyhydroxy Butyrate Nanocomposite Films”, Poster Presentation, 9th European Congress of Chemical Engineering, Den Haag, Netherland, 2013

O. Akin, Funda Tihminlioglu, “Effect of Organo-Modified Clay Addition on Crystallization Kinetics of Polyhydroxy Butyrate Nanocomposite Films”, Poster Presentation, 3th Polymeric Composites Symposium-Exhibition And Brokerage Event (International Participation), İzmir Turkey, 2012

O. Akin, Funda Tihminlioglu, “Eco-Friendly Biodegradable Nanocomposite Films and Coatings”, Poster Presentation, 2nd R&D Project Market, İstanbul, Turkey, 2012

H. Oguzlu, O. Akin, F. Tihminlioglu, “*Food Packaging Application of Biodegradable Poly(hydroxybutyrate) and Polylactade Nanocomposites*”, Poster Presentation ,1th Ege R&D and Technology Days, İzmir Turkey, 1-3 December 2010

O.Akin, F. Tihminlioglu, “*Preparation and Characterization of Polyhydroxybutyrate (PHB) Nanocomposite Films*”, 2nd Polymeric Composites Symposium-Exhibition And Brokerage Event (International Participation), İzmir Turkey, 26-28 October 2010

O.Akin, F. Tihminlioglu, *Preparation and Characterization of Poly (3-Hydroxybutyrate) Homo and Copolymer with Valerite's Nanocomposite Films*, Poster Presentation, 6th NanoTR-Nanoscience and Nanotechnology Conference, İzmir Turkey,15-18 June 2010

O.Akin, K. Za, S. Yılmaz, “*Lipase Enzyme Immobilization by Different Techniques and Their Activity in Olive Oil Hydrolysis*” NCC-3 Third National Catalysis Conference, Zonguldak Karaelmas University, April 28- May1, 2010

INSTRUMENTS

Water Vapor Permeation Instrument, PERMATRAN-W® Model 3/33 Plus, Mocon

Attension Theta Optical Tensiometer, KSV Instruments

Thermofisher Twin Screw Extruder

Haake Rheomixer

Texture analyzer (TA XT Plus)

HONORS AND AWARDS

“ Eco-Friendly Biodegradable Polymer Nanocomposite Films and Coatings For Food Packing Applications”, North Star Innovation, 2nd Finalist Project, 2013

‘NCC-3 Third National Catalysis Conference Poster Competition - First Degree Award-2010

Subject: Lipase Enzyme Immobilization by Different Techniques and Their Activity in Olive Oil Hydrolysis

FOREGEIN LANGUAGES

English: Advanced written/verbal communication and reporting skills
German: B-1 Level
Deutsche Akademie für Sprachen (DAS)

MEMBERSHIPS & RESPONSILITIES

Member of Union of Chambers of Turkish Engineers and Architects - Chamber of
Chemical Engineers

INTEREST

Member of a music band in which I am playing electro guitar. Spear hunting in sea.

REFERENCES

Prof. Funda Tihminlioglu

Department of Chemical Engineering Izmir Institute of Technology Izmir/Turkey

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Prof. Juan Carlos Garcia Quesada

Department of Chemical Engineering University of Alicante

San Vicente del Raspeig

Alicante/Spain

Phone: +34 965 90 3400 x 2332 e-mail: jc.garcia@ua.es

Prof. Devrim Balköse

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