

## Prof. Mualla ÖNER

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Yildiz Technical University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1985 - 1989

Undergraduate, Istanbul Technical University, Kimya Mühendisliği, Kimya Mühendisliği Bölümü, Turkey 1977 - 1982

### Research Areas

Chemical Engineering and Technology, Basic Operations and Thermodynamics, Separation Operations, Mass Transfer, Engineering and Technology

### Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 1998 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 1993 - 1998

Assistant Professor, University of Arizona, Mühendislik Fakültesi, Malzeme Mühendisliği, 1991 - 1993

Assistant Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 1989 - 1993

Assistant Professor, University of Arizona, Mühendislik Fakültesi, Kimya Mühendisliği, 1990 - 1991

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 1985 - 1989

Research Assistant, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, 1983 - 1985

### Supervised Theses

Öner M., BİYOMEDİKAL UYGULAMALAR İÇİN EKSTRÜZYON PROSESİ KULLANILARAK HİBRİT BİYONANOKOMPOZİTLERİN GELİŞTİRİLMESİ, Postgraduate, B.KILIÇ(Student), 2024

Öner M., Biyobozunur Polimer-Hidroksiapatit Nano Kompozitlerinin Hazırlanması ve Özelliklerinin İncelenmesi, Postgraduate, B.İlhan(Student), 2015

Öner M., Polietilenglikol metakrilat ve vinilsülfonik asit kopolimerinin kalsiyum oksalat kristalizasyonu üzerindeki etkisi,

Postgraduate, S.KIRBOĞA(Student), 2006

Öner M., Plastik boru üretimine değişik parametrelerin etkisini incelenmesi, Postgraduate, S.DEVECİ(Student), 2006

Öner M., Kalite güvence ve proses kontrol sistemlerinin enjeksiyon tabanlı ayakkabı üretiminde uygulanması,

Postgraduate, C.KORLU(Student), 2003

Öner M., İnteraktif programlama ile çok tesirli evaporatör tasarımı, Postgraduate, O.ACAR(Student), 2002

Öner M., Polimerik katkı maddelerinin kalsiyum sülfat kristalizasyonuna etkisi, Postgraduate, E.AKYOL(Student), 2000

Öner M., ISO 9002 kalite güvence ve ISO 14000 çevre yönetim sistemlerinin polimerik şerit elyaf üretimine uygulanması,

Postgraduate, Y.ÇELEBİ(Student), 1999

Öner M., Kalite güvence ve proses kontrol sistemlerinin cam sanayiine uygulanması, Postgraduate, G.TÜREDİ(Student), 1999

Öner M., Grafiksel programlama teknikleri ile gaz absorpsiyon kolonu tasarımı, Postgraduate, N.YENİPAZAR(Student), 1999

Öner M., İnteraktif grafiksel bilgisayar programlama ile çok bileşenli distilasyon kolon tasarımı, Postgraduate, İ.BARIŞ(Student), 1997

Öner M., Homopolimerler ve kopolimerlerin kalsiyum sülfat dihidrat ( $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ ) kristalizasyonuna etkisi,

Postgraduate, Ö.DOĞAN(Student), 1997

Öner M., Sentetik polielektrolitlerin kalsiyum sülfat dihidrat kristalizasyonuna etkisi, Postgraduate, İ.ALPASLAN(Student), 1996

## Jury Memberships

Post Graduate, Mualla Öner, İTÜ, January, 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of hybrid bionanocomposites of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with zinc oxide and silicon-doped hydroxyapatite nanocrystals and machine learning for predicting dynamic mechanical properties**  
ÖNER M., Kılıç B., Sudurağı M., ABAMOR E. Ş., Akgül B., Üner B. K.  
International Journal of Biological Macromolecules, vol.294, 2025 (SCI-Expanded)
- II. **The Development and Evaluation of PFSA-Free Polyacrylonitrile-co-Methyl Acrylate (PAN-MA) Nanofiber Membranes for its Potential Application as a Proton Exchange Membrane in Fuel Cells**  
Seda K. Y., ÖNER M., Remis T., Tomas M., Kovarik T.  
Macromolecular Materials and Engineering, vol.309, no.10, 2024 (SCI-Expanded)
- III. **The influence of silicon-doped hydroxyapatite nanoparticles on the properties of novel bionanocomposites based on poly(3-hydroxybutyrate-co-3-hydroxyvalerate)**  
ÖNER M., Kirboga S., ABAMOR E. Ş., Karadaş K., Kral Z.  
Express Polymer Letters, vol.17, no.4, pp.417-433, 2023 (SCI-Expanded)
- IV. **Preparation and Characterization of Calcium Carbonate Reinforced Poly (3-hydroxybutyrate-co-3-hydroxyvalerate) Biocomposites**  
Kirboga S., Öner M., Deveci S.  
CURRENT NANOSCIENCE, vol.17, no.2, pp.266-278, 2021 (SCI-Expanded)
- V. **Oxygen Barrier and Thermomechanical Properties of Poly (3-hydroxybutyrate-co-3-hydroxyvalerate) Biocomposites Reinforced with Calcium Carbonate Particles**  
Kirboga S., ÖNER M.  
ACTA CHIMICA SLOVENICA, vol.67, no.1, pp.137-150, 2020 (SCI-Expanded)
- VI. **Development of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/boron nitride bionanocomposites with enhanced barrier properties**  
Öner M., Keskin G., Kizil G., Pochat-Bohatier C., Bechelany M.

POLYMER COMPOSITES, vol.40, pp.78-90, 2019 (SCI-Expanded)

- VII. **The Effect of Boron Nitride on the Thermal and Mechanical Properties of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)**  
ÖNER M., Kizil G., Keskin G., Pochat-Bohatier C., Bechelany M.  
NANOMATERIALS, vol.8, no.11, 2018 (SCI-Expanded)
- VIII. **Potential of polyhydroxyalkanoate (PHA) polymers family as substitutes of petroleum based polymers for packaging applications and solutions brought by their composites to form barrier materials**  
Keskin G., Kizil G., Bechelany M., Pochat-Bohatier C., ÖNER M.  
PURE AND APPLIED CHEMISTRY, vol.89, no.12, pp.1841-1848, 2017 (SCI-Expanded)
- IX. **Investigating the effect of ultrasonic irradiation on synthesis of calcium carbonate using Box- Behnken experimental design**  
Kirboga S., Öner M.  
POWDER TECHNOLOGY, vol.308, pp.442-450, 2017 (SCI-Expanded)
- X. **Effects of ZnO crystals synthesized in presence of CMI biopolymer on PHBV properties**  
Bekat T., ÖNER M.  
PURE AND APPLIED CHEMISTRY, vol.89, no.1, pp.89-96, 2017 (SCI-Expanded)
- XI. **Effect of conductive copolymers on scale formation of gypsum**  
Dogan O., Erdemir C. S., Akyol E., Kirboga S., Öner M.  
PURE AND APPLIED CHEMISTRY, vol.89, pp.153-159, 2017 (SCI-Expanded)
- XII. **Effects of surface modification and ultrasonic agitation on the properties of PHBV/ZnO nanocomposites**  
Bekat T., ÖNER M.  
PURE AND APPLIED CHEMISTRY, vol.88, pp.1027-1035, 2016 (SCI-Expanded)
- XIII. **Box-Behnken experimental design for the production of precipitated calcium carbonate**  
KIRBOGA S., ÖNER M., Dogan O.  
PURE AND APPLIED CHEMISTRY, vol.88, pp.961-968, 2016 (SCI-Expanded)
- XIV. **Application of constant volume variable pressure (time-lag) method to measure oxygen gas diffusion through polypropylene pipes**  
Deveci S., Oksuz Y., Birtane T., ÖNER M.  
POLYMER TESTING, vol.55, pp.287-296, 2016 (SCI-Expanded)
- XV. **Effect of incorporation of boron nitride nanoparticles on the oxygen barrier and thermal properties of poly(3-hydroxybutyrate-cohydroxyvalerate)**  
ÖNER M.  
RSC Advances, vol.6, 2016 (SCI-Expanded)
- XVI. **Fabrication of poly(3-hydroxybutyrate-cohydroxyvalerate) biocomposites with reinforcement by hydroxyapatite using extrusion processing**  
ÖNER M., İlhan B.  
MATERIALS SCIENCE, vol.65, pp.19-26, 2016 (SCI-Expanded)
- XVII. **Effects of Thermo-Fatigue Loading, Hydrostatic Pressure, and Heat Aging on the Free-Volume and Crystalline Structure of Polypropylene-co-Ethylene Random Copolymer Pipes**  
Deveci S., ÖNER M.  
POLYMER ENGINEERING AND SCIENCE, vol.55, no.3, pp.641-650, 2015 (SCI-Expanded)
- XVIII. **Control of barium sulfate crystallization in the presence of additives**  
Akyol E., Aras O., Öner M.  
DESALINATION AND WATER TREATMENT, vol.52, pp.5965-5973, 2014 (SCI-Expanded)
- XIX. **Controlling of morphology and polymorph of calcium oxalate crystals by using polyelectrolytes**  
Akyol E., Öner M.  
JOURNAL OF CRYSTAL GROWTH, vol.401, pp.260-265, 2014 (SCI-Expanded)
- XX. **The effect of ultrasonication on calcium carbonate crystallization in the presence of biopolymer**  
Kirboga S., Öner M., Akyol E.

- JOURNAL OF CRYSTAL GROWTH, vol.401, pp.266-270, 2014 (SCI-Expanded)
- XXI. **Effect of incorporation of clay and zinc oxide nanoparticles on oxygen barrier properties of polypropylene sheet**  
Atayev P., ÖNER M.  
JOURNAL OF PLASTIC FILM & SHEETING, vol.30, no.3, pp.248-265, 2014 (SCI-Expanded)
- XXII. **Photodegradation of methylene blue with sphere-like ZnO particles prepared via aqueous solution**  
Akin M. B., ÖNER M.  
CERAMICS INTERNATIONAL, vol.39, no.8, pp.9759-9762, 2013 (SCI-Expanded)
- XXIII. **Application of experimental design for the precipitation of calcium carbonate in the presence of biopolymer**  
Kirboga S., Öner M.  
POWDER TECHNOLOGY, vol.249, pp.95-104, 2013 (SCI-Expanded)
- XXIV. **Synthesis of hydroxyapatite crystals using carboxymethyl inulin for use as a delivery of ibuprofen**  
ÖNER M., UYSAL U.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.33, no.1, pp.482-489, 2013 (SCI-Expanded)
- XXV. **Investigation of calcium carbonate precipitation in the presence of carboxymethyl inulin**  
Kirboga S., Öner M.  
CRYSTENGCOMM, vol.15, pp.3678-3686, 2013 (SCI-Expanded)
- XXVI. **Aqueous pathways for formation of zinc oxide particles in the presence of carboxymethyl inulin**  
Akin B., ÖNER M.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.38, no.7, pp.1511-1525, 2012 (SCI-Expanded)
- XXVII. **The inhibitory effects of carboxymethyl inulin on the seeded growth of calcium carbonate**  
Kirboga S., Öner M.  
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.91, pp.18-25, 2012 (SCI-Expanded)
- XXVIII. **Ibuprofen release from porous hydroxyapatite tablets**  
ÖNER M., Yetiz E., Ay E., Uysal U.  
CERAMICS INTERNATIONAL, vol.37, no.7, pp.2117-2125, 2011 (SCI-Expanded)
- XXIX. **The role of vinyl sulfonic acid homopolymer in calcium oxalate crystallization**  
Kirboga S., Öner M.  
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.78, pp.357-362, 2010 (SCI-Expanded)
- XXX. **The inhibitory effects of inulin biopolymers on the seeded growth of hydroxyapatite**  
Dogan O., ÖNER M., CINEL O.  
JOURNAL OF THE CERAMIC SOCIETY OF JAPAN, vol.118, no.1379, pp.579-586, 2010 (SCI-Expanded)
- XXXI. **Systematic Structural Determinants of the Effects of Tetraphosphonates on Gypsum Crystallization**  
Akyol E., Öner M., Barouda E., Demadis K. D.  
CRYSTAL GROWTH & DESIGN, vol.9, no.12, pp.5145-5154, 2009 (SCI-Expanded)
- XXXII. **BIOT 158-Investigation of ibuprofen release from porous hydroxyapatite crystals**  
ÖNER M., YETIZ E., Uysal U., Dogan O.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.238, 2009 (SCI-Expanded)
- XXXIII. **Inhibition of Calcium Oxalate Crystallization by Graft Copolymers**  
Kirboga S., Oner M.  
CRYSTAL GROWTH & DESIGN, vol.9, pp.2159-2167, 2009 (SCI-Expanded)
- XXXIV. **Effects of carboxylate-modified, "Green" inulin Biopolymers on the crystal growth of calcium oxalate**  
Akin B., ÖNER M., Bayram Y., Demadis K. D.  
CRYSTAL GROWTH & DESIGN, vol.8, no.6, pp.1997-2005, 2008 (SCI-Expanded)
- XXXV. **The influence of polymer architecture on nanosized hydroxyapatite precipitation**  
Dogan O., Oener M.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.8, no.2, pp.667-674, 2008 (SCI-Expanded)
- XXXVI. **Inhibition of calcium oxalate monohydrate crystal growth using polyelectrolytes**  
Akyol E., Oner M.

- JOURNAL OF CRYSTAL GROWTH, vol.307, pp.137-144, 2007 (SCI-Expanded)
- XXXVII. **Biomimetic mineralization of hydroxyapatite crystals on the copolymers of vinylphosphonic acid and 4-vinylimidazole**  
Dogan O., Oner M.  
LANGMUIR, vol.22, no.23, pp.9671-9675, 2006 (SCI-Expanded)
- XXXVIII. **The effects of polyelectrolytes on the inhibition and aggregation of calcium oxalate crystallization**  
Akyol E., Bozkurt A., Oner M.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.17, pp.58-65, 2006 (SCI-Expanded)
- XXXIX. **Inhibitory effect of polyelectrolytes on crystallization kinetics of hydroxyapatite**  
Oner M., Dogan O.  
PROGRESS IN CRYSTAL GROWTH AND CHARACTERIZATION OF MATERIALS, vol.50, pp.39-51, 2005 (SCI-Expanded)
- XL. **Polyelectrolytes inhibition effect on crystallization of gypsum**  
Dogan O., Akyol E., Oner M.  
CRYSTAL RESEARCH AND TECHNOLOGY, vol.39, no.12, pp.1108-1114, 2004 (SCI-Expanded)
- XLI. **The influence of polyelectrolytes architecture on calcium sulfate dihydrate growth retardation**  
Oner M., Dogan O., Oner G.  
JOURNAL OF CRYSTAL GROWTH, vol.186, no.3, pp.427-437, 1998 (SCI-Expanded)
- XLII. **Control of ZnO crystallization by a PEO-b-PMAA diblock copolymer**  
Oner M., Norwig J., Meyer W., Wegner G.  
CHEMISTRY OF MATERIALS, vol.10, no.2, pp.460-464, 1998 (SCI-Expanded)
- XLIII. **Growth of oxalate crystals on films of acrylate polymers**  
Burdon J., Oner M., Calvert P.  
MATERIALS SCIENCE & ENGINEERING C-BIOMIMETIC AND SUPRAMOLECULAR SYSTEMS, vol.4, no.2, pp.133-137, 1996 (SCI-Expanded)
- XLIV. **THE EFFECT OF ARCHITECTURE OF ACRYLIC POLYELECTROLYTES ON INHIBITION OF OXALATE CRYSTALLIZATION**  
ONER M., CALVERT P.  
MATERIALS SCIENCE & ENGINEERING C-BIOMIMETIC MATERIALS SENSORS AND SYSTEMS, vol.2, pp.93-101, 1994 (SCI-Expanded)
- XLV. **THE EFFECT OF ASH AND ASH CONSTITUENTS ON THE LIQUEFACTION YIELD OF TURKISH LIGNITES AND ASPHALTITES**  
ONER M., ONER G., BOLAT E., YALIN G., KAVLAK C., DINCER S.  
FUEL, vol.73, no.10, pp.1658-1666, 1994 (SCI-Expanded)
- XLVI. **INVESTIGATION OF THE DEGRADATION OF COMMERCIAL POLYOXYMETHYLENE COPOLYMER IN WATER SERVICE APPLICATIONS**  
ONER M., WHITE D.  
POLYMER DEGRADATION AND STABILITY, vol.40, no.3, pp.297-303, 1993 (SCI-Expanded)
- XLVII. **Liquefaction of Elbistan and Yatagan Lignites in Carbon monoxide/Hydrogen Gas Mixtures**  
Öner M., Bolat E., Yalın G., Dinçer S.  
FUEL SCIENCE & TECHNOLOGY INTERNATIONAL, vol.10, no.3, pp.371-375, 1992 (SCI-Expanded)
- XLVIII. **EFFECTS OF LIGNITE PROPERTIES ON THE HYDROLIQUEFACTION BEHAVIOR OF REPRESENTATIVE TURKISH LIGNITES**  
ONER M., BOLAT E., DINCER S.  
ENERGY SOURCES, vol.14, no.1, pp.81-94, 1992 (SCI-Expanded)
- XLIX. **EFFECTS OF CATALYSTS AND SOLVENTS ON THE DIRECT HYDROLIQUEFACTION OF TURKISH LIGNITES**  
ONER M., BOLAT E., DINCER S.  
ENERGY SOURCES, vol.12, no.4, pp.407-419, 1990 (SCI-Expanded)
- L. **THERMO-PHYSICAL PROPERTIES OF POLYMER PROBE PAIRS BY GAS-CHROMATOGRAPHY**  
ONER M., DINCER S.

## Articles Published in Other Journals

- I. **Synthesis of calcium carbonate in the presence of polymers under ultrasonic waves**  
Kirboga S., Öner M.  
BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, vol.6, no.4, pp.1320-1326, 2016 (ESCI)
- II. **A kinetic study for calcium oxalate crystallization in the presence of Viburnum opulus extract**  
Akyol E., Ongun K., Kirboga S., Öner M.  
BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, vol.6, pp.1064-1069, 2016 (ESCI)
- III. **The effects of Zinc Oxide and Clay nanoparticles on Thermal Barrier and mechanical properties of polypropylene and High Density Polyethylene**  
Atayev P., BEKAT T., ÖNER M.  
Sigma Journal of Engineering and natural sciences, 2015 (ESCI)
- IV. **THE EFFECTS OF ZINC OXIDE AND CLAY NANOPARTICLES ON THERMAL, BARRIER, AND MECHANICAL PROPERTIES OF POLYPROPYLENE AND HIGH DENSITY POLYETHYLENE**  
ATAYEV P., Bekat T., ÖNER M.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.33, no.1, pp.16-21, 2015 (ESCI)
- V. **THE EFFECT OF POLYETHYLENEGLYCOL METHACRYLATEVINYL SULFONIC ACID GRAFT COPOLYMERS ON CALCIUM OXALATE CRYSTALLIZATION**  
Kırboğa S., Öner M.  
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.6, pp.151-161, 2008 (Peer-Reviewed Journal)
- VI. **Kalsiyum Oksalat Kristalizasyonuna Polimerlerin Etkisinin İncelenmesi**  
Öner M., Akın M. B., Bozkurt A.  
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.25, no.2, pp.170-178, 2007 (Peer-Reviewed Journal)
- VII. **THE EFFECT OF POLYELECTROLYTES ON CALCIUM OXALATECRYSTALLIZATION**  
Akyol E., Öner M.  
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.25, pp.55-64, 2007 (Peer-Reviewed Journal)
- VIII. **Polielektrolitlerin Kalsiyum Oksalat Kristalizasyonu Üzerindeki Etkisi**  
Akyol E., Öner M.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FENBILIMLERI DERGISI, vol.25, pp.48-57, 2007 (ESCI)
- IX. **THE EFFECT OF POLYELECTROLYTES ON CALCIUM OXALATE CRYSTALLIZATION**  
Akyol E., Öner M.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.25, no.1, pp.48-57, 2007 (ESCI)
- X. **İnteraktif Grafiksel Programlama ile Ekstraksiyon Prosesi Tasarımı**  
Öner M., Uysal U.  
Sigma Mühendislik ve Fen Bilimleri Dergisi, no.1, pp.129-137, 2006 (Peer-Reviewed Journal)
- XI. **INVESTIGATION OF HYDROXYAPATITE AND CALCIUM OXALATE CRYSTALLIZATION AS A MODEL TO BIOMINERALIZATION**  
AKYOL E., Dogan O., ÖNER M.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.23, no.3, pp.11-17, 2005 (ESCI)
- XII. **Biyomineralizasyona Model Olarak Hidroksiapatit ve Kalsiyum Oksalat Kristalizasyonunun İncelenmesi**  
Akyol E., Doğan Ö., Öner M.  
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.23, no.3, pp.11-17, 2005 (Peer-Reviewed Journal)
- XIII. **Katkı Maddelerinin Kristalizasyon Prosesine Etkisinin İncelenmesi ve Kontrolü**

## Books

- I. **Application of Calcium Carbonate for the Removal of Copper from Aqueous Solutions**  
Kırboğa S., Öner M.  
in: INDUSTRIAL WATER TREATMENT: NEW TRENDS, CHALLENGES, AND SOLUTIONS, Amjad Z., Chen T., Editor, NACE International - The Corrosion Society, Texas, pp.163-174, 2017
- II. **Controlling of Calcium Oxalate Crystallization by Using Cross-Linked Vinylphosphonic Acid Polymer**  
Öner M., Akyol E., Akın M. B.  
in: INDUSTRIAL WATER TREATMENT: NEW TRENDS, CHALLENGES, AND SOLUTIONS, Zahid Amjad, Tao Chen, Editor, NACE International - The Corrosion Society, Texas, pp.125-139, 2017
- III. **Importance of Calcium-Based Scales in Kidney Stones. Mineral Scales and Deposites**  
Öner M., Khan A., Khan S.  
in: Mineral Scales and Deposits Scientific and technological approach, Zahid Amjad, Kostas Demadis, Editor, Elsevier Science, Oxford/Amsterdam, New-York, pp.393-410, 2015
- IV. **Polyelectrolyte: Science and Application**  
Akyol E., Kırboğa Okumuş S., Öner M.  
in: Polyelectrolyte: Thermodynamics and Rheology, Visakh P. M., Bayraktar O., Guillermo P., Editor, Springer International European Press Academic Publishing, Zürich, pp.87-112, 2014
- V. **Effect of Biopolymers on Scale Formation**  
Doğan Ö., Akyol E., Öner M.  
in: Mineral Scales in Biological and Industrial Systems, Zahid Amjad, Editor, CRC Press Taylor & Francis Group, New-York, pp.61-76, 2013
- VI. **Crystal Growth Inhibition of Calcium Sulfate and Calcium Oxalates in Aqueous Systems**  
Öner M.  
in: The Science and Technology of Industrial Water Treatment, Zahid Amjad, Editor, Taylor Publishing Company, New-York, pp.21-38, 2010
- VII. **Inhibitory effects of "Green" additives on the crystal growth of sparingly soluble salts**  
Öner M., Demadis K.  
in: Green Chemistry Research Trends, Jeffrey Pearlman, Editor, NOVA Science Publishers Inc., New-York, pp.265-287, 2009
- VIII. **Control of Crystallization Processes By Diblock Copolymers**  
Doğan Ö., Akyol E., Barış S., Öner M.  
in: Advances in Crystal Growth Inhibition Technologies, Zahid Amjad, Editor, Kluwer Academic/ Plenum Publishers, New-York, pp.197-205, 2000
- IX. **Kömür Sıvılaştırılması**  
Öner M., Dinçer S., Bolat E.  
in: Kömür, Orhan Kural, Editor, Nadir Kitap, İstanbul, pp.511-532, 1998
- X. **The Role of Acrylic Polyelectrolytes and Acrylic Gels as Crystallization Inhibitors and Promoters of Calcium Oxalate**  
Öner M., Calvert P.  
in: Advances in Materials Science and Implant Orthopedic Surgery, Ram Kossowsky, Nir Kossowsky, Editor, Springer, London/Berlin, New-York, pp.247-263, 1995
- XI. **Coal Liquefaction**  
Öner M., Olcay A.  
in: Coal Resources Properties Utilization Pollution, Orhan Kural, Editor, Nadir Kitap, İstanbul, pp.379-396, 1994

## Papers Published in Refereed Scientific Meetings

- I. **BİYOMEDİKAL UYGULAMALAR İÇİN EKSTRÜZYON PROSESİ KULLANILARAK HİBRİT BİYONANOKOMPOZİTLERİN GELİŞTİRİLMESİ**  
Kılıç B., Öner M.  
15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 04 September 2023, pp.1015-1020
- II. **POLİ (3-HİDROKSİBÜTİRAT-KO-3HİDROKSİVALERAT (PHBV) BİYOPOLİMERİNİN ÖZELLİKLERİNE ETKİSİ**  
Ateş S., Öner M.  
15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023, pp.1-4
- III. **Biodegradable Poly (3-hydroxybutyrate-co-3-hydroxyvalerate, PHBV) biocomposites reinforced with different particles with improved properties**  
Kırboğa S., Öner M.  
The 4th International Conference on Materials Engineering and Nanotechnology 2021 (ICMEN 2021), Kuala-Lumpur, Malaysia, 3 - 04 April 2021, pp.20005
- IV. **THE PROPERTIES OF PHBV/CaCO<sub>3</sub> COMPOSITES PREPARED BY MELT PROCESSING**  
Kırboğa S., Öner M.  
ICNTC 2020 (International Conference on New Trends in Chemistry ), Gazimagusa, Cyprus (Kkct), 17 - 18 October 2020, pp.102-103
- V. **Investigation of The Effects of Calcium Carbonate on The Properties of Biopolymer Composites**  
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## Supported Projects

ÖNER M., Kılıç B., Project Supported by Higher Education Institutions, Biyomedikal Uygulamalar İçin Ekstrüzyon Prosesi Kullanılarak Hibrit Biyanokompozitlerin Geliştirilmesi, 2023 - 2024

ÖNER M., Ateş S., Project Supported by Higher Education Institutions, Biyanokompozitin özelliklerine hidroksiapatitin etkisinin incelenmesi, 2022 - 2024

ÖNER M., KIRBOĞA OKUMUŞ S., Kral Z., Project Supported by Higher Education Institutions, Polihidroksibütiratkohidroksivalerat Biyanokompozitlerinin silikalanmış hidroksiapatit nanopartikülleri ile hazırlanması ve karakterizasyonu, 2021 - 2023

KIRBOĞA OKUMUŞ S., ÖNER M., Project Supported by Higher Education Institutions, BİYOPOLİMERKALSİYUM KARBONAT KOMPOZİTLERİNİN HAZIRLANMASI VE ÖZELLİKLERİNİN İNCELENMESİ, 2017 - 2020

ÖNER M., BEKAT T., Project Supported by Higher Education Institutions, WET CHEMICAL SYNTHESIS OF ZnO PARTICLES AND INCORPORATION INTO PHBV MATRIX (ZnO PARÇACIKLARININ SUDA KİMYASAL SENTEZİ VE PHBV MATRİSİNE İLAVESİ), 2015 - 2018

ÖNER M., Project Supported by Higher Education Institutions, Bariyer Özellikleri İyileştirilmiş Biyanokompozitlerin Geliştirilmesi, 2016 - 2017

ÖNER M., Project Supported by Higher Education Institutions, Kalsiyum Karbonat Morfolojisinin Poliolefin-Kalsiyum Karbonat Kompozitine Etkisinin İncelenmesi, 2013 - 2017

ÖNER M., Project Supported by Higher Education Institutions, Hidroksiapatit-Polimer Matriksinin Antibiyotik Salıma Etkisi, 2015 - 2016

ÖNER M., Project Supported by Higher Education Institutions, Polipropilenin Bariyer ve Mekanik Özelliklerinin İyileştirilmesi, 2013 - 2016

ÖNER M., Project Supported by Higher Education Institutions, Hidroksiapatit Tabletlerinden Kontrollü İlaç Salınımının İncelenmesi, 2014 - 2015

ÖNER M., Project Supported by Higher Education Institutions, ZnO kristalleri varlığında boyar maddelerin foto katalitik oksidasyon yöntemiyle bozulmasının incelenmesi, 2013 - 2014

ÖNER M., Project Supported by Higher Education Institutions, Kalsiyum Karbonat Kristallerinin Kontrollü Sentezi, 2013 -

2014

ÖNER M., Project Supported by Higher Education Institutions, Plastik ekstrüzyon ürünlerinde gaz geçiş özelliklerinin incelenmesi ve geliştirilmesi, 2012 - 2012

ÖNER M., Project Supported by Higher Education Institutions, Kalsiyum Karbonat (CaCO<sub>3</sub>) Üretiminde Reaksiyon Parametrelerinin İncelenmesi ve Morfolojinin Kontrolü, 2011 - 2012

ÖNER M., Project Supported by Higher Education Institutions, Değişik Deneysel Parametrelerin Nano ve Mikron boyutundaki ZnO Büyümesine Etkisi, 2010 - 2012

ÖNER M., Project Supported by Higher Education Institutions, Akrilik ve fosfonik asit polimerlerinin baryum sülfat kristalizasyonuna etkileri, 2008 - 2010

ÖNER M., Project Supported by Higher Education Institutions, Hidroksiapatit Kristallerinin İlaç Salımında Kullanımı, 2007 - 2010

ÖNER M., Project Supported by Higher Education Institutions, Tohum Büyütme Tekniği Kullanılarak Kalsiyum Oksalat Kristalizasyon Kinetiğinin İncelenmesi, 2005 - 2006

ÖNER M., Project Supported by Higher Education Institutions, Biyolojik mineralizasyona model olarak hidroksiapatit kristalizasyonunun incelenmesi, 2004 - 2005

ÖNER M., Other International Funding Programs, Sabit Kompozisyon Kontrollü Kristalizasyon, 2002 - 2005

ÖNER M., Control of ZnO Crystallization by Copolymers, 1996 - 1996

ÖNER M., Türk Linyitlerinin Sıvılaştırılması, 1995 - 1995

ÖNER M., Türk Linyitlerinin ve Asfaltitlerinin Sıvılaştırılmasında Çeşitli Katalizörlerin Etkisi, 1995 - 1995

ÖNER M., Intelligent Synthetic Polymers; A Blend of Polymer Synthesis and Biotechnology, 1991 - 1993

ÖNER M., Hydroliquefaction of Turkish Lignites, 1987 - 1991

ÖNER M., TUBITAK Project, Türk Linyitlerinin Sıvılaştırılmasında Çeşitli Deneysel Parametrelerin İncelenmesi, 1988 - 1989

## Peer Reviews in Scientific Publications

Crystal Growth and Design, SCI Journal, July 2013

Journal of Bionic Engineering, SCI Journal, April 2013

Ceramic International, SCI Journal, January 2013

Powder Tecnology, SCI Journal, December 2012

Gypsum Scale Formation on Heated Metal Surfaces: The Influence of Heat Treatment on Polymers Performance, SCI Journal, November 2012

Research on Chemical Intermediates, SCI Journal, September 2011

Crystal Growth and Design, SCI Journal, September 2011

Crystal Growth and Design, SCI Journal, August 2011

Annals of Biomedical Engineering, SCI Journal, August 2011

Polymer Bulletin, SCI Journal, July 2011

ACS Petroleum Research, SCI Journal, July 2011

Journal of Crystal Growth, SCI Journal, June 2011

## Metrics

Publication: 277

Citation (WoS): 1272

Citation (Scopus): 1727

H-Index (WoS): 20

H-Index (Scopus): 22



## **Non Academic Experience**

Yıldız Teknik Üniversitesi, Dekan Yardımcısı

Max-Planck Institute for Polymer Research, Misafir Öğretim Üyesi

Arizona Üniversitesi, Araştırmacı

Arizona Üniversitesi, Misafir Öğretim Üyesi

Berlin Teknik Üniversitesi, Araştırmacı

Claustal Teknik Üniversitesi, Araştırmacı