

Prof. Mualla ÖNER

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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

Advising Theses

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., Grafiksel programlama teknikleri ile gaz absorpsiyon kolonu tasarımı, Postgraduate, N.YENİPAZAR(Student), 1999
- Öner M., Kalite güvence ve proses kontrol sistemlerinin cam sanayiine uygulanması, Postgraduate, G.TÜREDİ(Student), 1999
- 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., İnteraktif grafiksel bilgisayar programlama ile çok bileşenli distilasyon kolon tasarımı, Postgraduate, İ.BARIŞ(Student), 1997
- Öner M., Sentetik polielektrolitlerin kalsiyum sülfat dihidrat kristalizasyonuna etkisi, Postgraduate, İ.ALPAŞLAN(Student), 1996

Jury Memberships

Post Graduate, Mualla Öner, İTÜ, January, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **Investigation of calcium carbonate precipitation in the presence of carboxymethyl inulin**
Kirboga S., Öner M.
CRYSTENGCOMM, vol.15, pp.3678-3686, 2013 (SCI-Expanded)
- XXI. **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)

- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Inhibition of Calcium Oxalate Crystallization by Graft Copolymers**
Kirboga S., Oner M.
CRYSTAL GROWTH & DESIGN, vol.9, pp.2159-2167, 2009 (SCI-Expanded)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **THERMO-PHYSICAL PROPERTIES OF POLYMER PROBE PAIRS BY GAS-CHROMATOGRAPHY**
ONER M., DINCER S.
POLYMER, vol.28, no.2, pp.279-282, 1987 (SCI-Expanded)

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 OXALATE CRYSTALLIZATION**
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 FEN BİLİMLERİ DERGİSİ, 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 BİLİMLERİ DERGİSİ, 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 BİLİMLERİ DERGİSİ, 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**
Akyol E., Doğan Ö., Öner M.
Yıldız Teknik Üniversitesi Dergisi, vol.2002, no.3, pp.47-56, 2002 (ESCI)

Books & Book Chapters

- 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

Refereed Congress / Symposium Publications in Proceedings

I. 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

II. THE PROPERTIES OF PHBV/CaCO₃ 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

III. Effect of decabromodiphenylethane and antimony trioxide on the flame retardancy of ethylene-propylene-diene copolymer

Akyol E., Çavuşoğlu Ş., Öner M.

5th International Materials Science and Advanced-Nanotechnologies for Next Generation (MSNG2018), Nevşehir, Turkey, 04 October 2018, pp.4

IV. Investigation of The Effects of Calcium Carbonate on The Properties of Biopolymer Composites

Kırboğa S., Öner M.

International Materials Science and Nanotechnology For Next Generation conference (MSNG2018), Nevşehir,

Turkey, 04 October 2018, pp.95-96

- V. **The effects of avocado leaves extract on calcium oxalate monohydrate growth: An in vitro study**
Akyol E., Şenol M., Öner M.
Sixth European Conference on Crystal Growth, Varna, Bulgaria, 16 September 2018
- VI. **Incorporation of silane modified and ultrasound dispersed ZnO particles into PHBV matrix**
BEKAT T., ÖNER M.
European Materials Research Society 2017 Spring Meeting, Strasbourg, France, 22 May 2017, pp.10
- VII. **The use of boron nitride reinforcements in PHBV: Investigation of oxygen barrier, thermal and mechanical properties**
ÖNER M., Kızıl G., Keskin G., Satiroglu M., Seydioğlu R., Pochat C., Bechalany M.
EMRS Spring meeting, 22 - 26 May 2017
- VIII. **Processing and Characterization of PHBV/BN Composites**
ÖNER M., Kızıl G., Keskin G., Şatroğlu M., Seydioğlu R., Pochat C., Bechelany M.
EMRS 2017 Spring Meeting, 22 - 26 May 2017
- IX. **Incorporation of silane modified and ultrasound dispersed ZnO Particles into PHBV matrix**
BEKAT T., ÖNER M.
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- X. **Effect of incorporation of boron nitride nanoparticles on oxygen and water vapor barrier properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)**
ÖNER M., Çöl A., Keskin G., Kızıl G., Satiroglu M., Bohatier C., Bechalany M.
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- XI. **Processing and characterization of bionanocomposites of poly 3 hydroxybutyrate co lrydroxyvalerate and Boron Nitride**
Çöl A., ÖNER M., Pochat C., Bechalany M.
N.I.C.E 2016, 16 - 19 October 2016
- XII. **Experimental Design for the Production of Precipitated Calcium Carbonate**
Kırboğa S., Öner M.
3rd International Conference on Bioinspired and Biobased Chemistry and Materials (N.I.C.E. 2016), Nice, France, 16 October 2016, pp.293
- XIII. **Characterization of Calcium Carbonate Crystals Obtained in the Presence of Biopolymer under Ultrasound Waves**
Kırboğa S., Öner M.
3rd International Conference on Bioinspired and Biobased Chemistry and Materials (N.I.C.E. 2016), Nice, France, 16 October 2016, pp.302
- XIV. **EFFECTS OF SURFACE MODIFICATION AND ULTRASONIC AGITATION ON THE PROPERTIES OF PHBV ZnO NANOCOMPOSITES**
BEKAT T., ÖNER M.
16th International Conference "Polymers and Organic Chemistry", POC-16, 13 - 16 June 2016
- XV. **EFFECTS OF ZnO CRYSTALS SYNTHESIZED IN PRESENCE OF CMI BIOPOLYMER ON PHBV PROPERTIES**
BEKAT T., ÖNER M.
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- XVI. **The Effect of Conductive Copolymers on The Scale Formation of Gypsum**
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Non Academic Experience

Yıldız Teknik Üniversitesi

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