

## Prof. Dr. NECATİ ÖZKAN

### Kişisel Bilgiler

İş Telefonu: [+90 312 210 6427](tel:+903122106427)

Fax Telefonu: [+90 312 210 6425](tel:+903122106425)

E-posta: [nozkan@metu.edu.tr](mailto:nozkan@metu.edu.tr)

Web: <https://avesis.metu.edu.tr/nozkan>

Posta Adresi: Merkez Laboratuvar, ARGE Eğitim ve Ölçme Merkezi, ODTÜ, Ankara

### Uluslararası Araştırmacı ID'leri

ScholarID: [qVjIBGgAAAAJ](https://orcid.org/0000-0002-7837-3152)

ORCID: 0000-0002-7837-3152

Publons / Web Of Science ResearcherID: E-6186-2011

ScopusID: 7003510209

Yoksis Araştırmacı ID: 7127

### Eğitim Bilgileri

Doktora, Imperial College of Science, Technology and Medicine, Mühendislik Fakültesi, Kimya Mühendisliği, İngiltere  
1991 - 1994

Yüksek Lisans, Stanford University, Mühendislik Fakültesi, Malzeme Bilimi Ve Mühendisliği, Amerika Birleşik Devletleri  
1986 - 1988

Lisans, İstanbul Teknik Üniversitesi, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, Türkiye 1980 - 1984

### Yaptığı Tezler

Doktora, Compaction and Sintering of Ceramic Powders, Imperial College Of Science, Technology And Medicine, Kimya Mühendisliği, 1994

### Araştırma Alanları

Metalurji ve Malzeme Mühendisliği, Malzeme Bilimi ve Mühendisliği, Polimerik Malzemeler, Malzeme Karakterizasyonu, Termal Özellikler, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilimi ve Teknolojisi Anabilim Dalı, 2009 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilimi ve Teknolojisi Anabilim Dalı, 2004 - 2009

Doç. Dr., University Of Auckland, Mühendislik Fakültesi, Kimya Ve Malzeme Mühendisliği, 1997 - 2003

Öğretim Görevlisi Dr., Imperial College, Mühendislik, Kimya Mühendisliği, 1995 - 1997

Araştırma Görevlisi, Imperial College of Science, Technology and Medicine, Mühendislik Fakültesi, Kimya Mühendisliği, 1991 - 1994

Araştırma Görevlisi, University of Cambridge, Cavendish Laboratory, Superconductivity Centre, 1989 - 1991

Araştırmacı, DEVTECH, 1988 - 1989

## Akademik İdari Deneyim

Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilimi Ve Teknolojisi (YI) (Tezli), 2014 - Devam Ediyor  
Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknoloji (Dr), 2010 - 2012

## Yönetilen Tezler

- ÖZKAN N., Tarımsal atıklardan elde edilen biyopolimerlerin üç boyutlu (3B) baskısı, Doktora, E.GÖKÇE(Öğrenci), 2022  
ÖZKAN N., Preparation and characterization of polybenzoxazine involving various additives, Doktora, A.HİSAR(Öğrenci), 2021  
Özkan N., Improvement of rheological, mechanical and interface properties of solid rocket motor liner, Yüksek Lisans, O.ASLAN(Öğrenci), 2021  
ÖZKAN N., Yüksek sıcaklık PEM yakıt hücreleri için düşük maliyetli ve yüksek performanslı (Co-N/MWCNT) ve polibenzimidazol (PBI) ile modifiye edilmiş (Pt-PBI/MWCNT) elektrokatalizörlerin geliştirilmesi, Yüksek Lisans, E.Öğuzhan(Öğrenci), 2020  
ÖZKAN N., Nanosilika dolgulu epoksi ve karbon elyaf takviyeli filaman sargı ile üretilmiş kompozitlerin performansı, Yüksek Lisans, E.Sapancı(Öğrenci), 2019  
Özkan N., Devrim Y., Cross-Linked Polybenzimidazole Membranes for High Temperature PEM Fuel Cells, Yüksek Lisans, Y.Özdemir(Öğrenci), 2018  
Özkan N., Bakır U., Effects of hemicellulose extraction and extrusion parameters on the properties of hemicellulose based polymeric materials obtained from different lignocellulosic biomass, Yüksek Lisans, D.ERDEMİR(Öğrenci), 2015  
BÖLÜKBAŞI U., ÖZKAN N., Farklı tarımsal atıklardan ekstrüzyon yöntemiyle hemiselüloz temelli film üretimi için süreç koşullarının incelenmesi, Yüksek Lisans, B.Aknalan(Öğrenci), 2014  
ÖZKAN N., Effect of biomass pretreatment conditions on the glucose and biodegradable film production from lignocellulosic wastes, Doktora, E.BAHÇEGÜL(Öğrenci), 2013  
Özkan N., Devrim Y., Development of self-humidifying nano-composite membrane for polymer electrolyte membrane fuel cell , Yüksek Lisans, U.Çağan(Öğrenci), 2012  
ÖZKAN N., Investigation of alkaline pretreatment parameters on a multiproduct basis for the co-production of glucose and hemicellulose based films from corn cobs, Yüksek Lisans, H.EZGİ(Öğrenci), 2012

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Enhancing the performance of HTPB-IPDI-based polyurethane composite liner through effective carbon black dispersion\*\***  
Aslan O., Atalar T., Atıncı Yılmaz G., ÖZKAN N.  
Propellants, Explosives, Pyrotechnics, cilt.48, sa.12, 2023 (SCI-Expanded)
- II. **High-temperature electrochemical hydrogen separation from reformat gases using PBI/MOF composite membrane**  
Bulanık Durmuş G. N., Eren E. O., Devrim Y., ÇOLPAN C. Ö., ÖZKAN N.  
International Journal of Hydrogen Energy, cilt.48, sa.60, ss.23044-23054, 2023 (SCI-Expanded)
- III. **3D printing of crude lignocellulosic biomass extracts containing hemicellulose and lignin**  
Gokce Bahcegul E., Bahcegul E., ÖZKAN N.  
INDUSTRIAL CROPS AND PRODUCTS, cilt.186, 2022 (SCI-Expanded)
- IV. **Preparation of polybenzimidazole/ZIF-8 and polybenzimidazole/UiO-66 composite membranes with enhanced proton conductivity**  
Eren E. O., ÖZKAN N., Devrim Y.  
International Journal of Hydrogen Energy, cilt.47, sa.45, ss.19690-19701, 2022 (SCI-Expanded)
- V. **Polybenzimidazole-modified carbon nanotubes as a support material for platinum-based high-temperature proton exchange membrane fuel cell electrocatalysts**

- Eren E. O., ÖZKAN N., DEVRİM Y.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.46, sa.57, ss.29556-29567, 2021 (SCI-Expanded)
- VI. **Development of non-noble Co-N-C electrocatalyst for high-temperature proton exchange membrane fuel cells**  
Eren E. O., ÖZKAN N., Devrim Y.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.45, sa.58, ss.33957-33967, 2020 (SCI-Expanded)
- VII. **3D Printing of Hemicellulosic Biopolymers Extracted from Lignocellulosic Agricultural Wastes**  
Bahcegul E. G., Bahcegul E., ÖZKAN N.  
ACS APPLIED POLYMER MATERIALS, cilt.2, sa.7, ss.2622-2632, 2020 (SCI-Expanded)
- VIII. **Efficient Acetylation of Xylans by Exploiting the Potassium Acetate Formed During the Alkaline Extraction**  
AKKUS M., ÖZKAN N., BAKIR U.  
JOURNAL OF POLYMERS AND THE ENVIRONMENT, cilt.26, sa.8, ss.3397-3403, 2018 (SCI-Expanded)
- IX. **Fabrication and Characterization of Cross-linked Polybenzimidazole Based Membranes for High Temperature PEM Fuel Cells**  
ÖZDEMİR Y., ÖZKAN N., Devrim Y.  
ELECTROCHIMICA ACTA, cilt.245, ss.1-13, 2017 (SCI-Expanded)
- X. **Preparation of silica coated cobalt ferrite magnetic nanoparticles for the purification of histidine-tagged proteins**  
Aygar G., Kaya M., Özkan N., Kocabıyık S., Volkan M.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, cilt.87, ss.64-71, 2015 (SCI-Expanded)
- XI. **Kinetic approach for the purification of nucleotides with magnetic separation**  
Tural S., Tural B., Ece M. S., Yetkin E., ÖZKAN N.  
JOURNAL OF SEPARATION SCIENCE, cilt.37, sa.22, ss.3370-3376, 2014 (SCI-Expanded)
- XII. **Post-extrusion heat-treatment as a facile method to enhance the mechanical properties of extruded xylan-based polymeric materials**  
AKKUS M., BAHÇEGÜL E., ÖZKAN N., Bakir U.  
RSC ADVANCES, cilt.4, sa.107, ss.62295-62300, 2014 (SCI-Expanded)
- XIII. **An unconventional approach for improving the integrity and mechanical properties of xylan type hemicellulose based films**  
Bahcegul E., Toraman H. E., Erdemir D., AKINALAN B., ÖZKAN N., Bakir U.  
RSC ADVANCES, cilt.4, sa.64, ss.34117-34126, 2014 (SCI-Expanded)
- XIV. **Extrusion of xylans extracted from corn cobs into biodegradable polymeric materials**  
BAHÇEGÜL E., Akinalan B., Toraman H. E., Erdemir D., ÖZKAN N., Bakir U.  
BIORESOURCETECHNOLOGY, cilt.149, ss.582-585, 2013 (SCI-Expanded)
- XV. **Effects of Defatted Flaxseed Addition on Rheological Properties of Wheat Flour Slurry**  
HAO C., LÍ D., Mao Z., ÖZKAN N., Chen X. D.  
INTERNATIONAL JOURNAL OF FOOD ENGINEERING, cilt.9, sa.4, ss.457-466, 2013 (SCI-Expanded)
- XVI. **Evaluation of alkaline pretreatment temperature on a multi-product basis for the co-production of glucose and hemicellulose based films from lignocellulosic biomass**  
BAHÇEGÜL E., TORAMAN H. E., ÖZKAN N., Bakir U.  
BIORESOURCETECHNOLOGY, cilt.103, sa.1, ss.440-445, 2012 (SCI-Expanded)
- XVII. **Thermal Properties of Polyurethane Films Prepared from Mixed Cellulose, Hemicelluloses and Lignin**  
SHAO M., LIU Z., LÍ D., ZHAO Y., ÖZKAN N., CHEN X. D.  
INTERNATIONAL JOURNAL OF FOOD ENGINEERING, cilt.8, sa.4, 2012 (SCI-Expanded)
- XVIII. **Dynamic mechanical properties of flaxseed gum based edible films**  
WANG Y., LÍ D., WANG L., YANG L., ÖZKAN N.  
CARBOHYDRATE POLYMERS, cilt.86, sa.2, ss.499-504, 2011 (SCI-Expanded)
- XIX. **Rheological study and fractal analysis of flaxseed gum gels**  
Wang Y., Li D., Wang L., Wu M., ÖZKAN N.  
CARBOHYDRATE POLYMERS, cilt.86, sa.2, ss.594-599, 2011 (SCI-Expanded)

- XX. **Preparation and characterization of surface modified gamma-Fe<sub>2</sub>O<sub>3</sub> (maghemite)-silica nanocomposites used for the purification of benzaldehyde lyase**  
TURAL B., Sopaci S. B., ÖZKAN N., DEMİR A. G., Volkan M.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, cilt.72, sa.8, ss.968-973, 2011 (SCI-Expanded)
- XXI. **Origin of Lyotropic Liquid Crystalline Mesophase Formation and Liquid Crystalline to Mesostructured Solid Transformation in the Metal Nitrate Salt-Surfactant Systems**  
Albayrak C., ÖZKAN N., Dag O.  
LANGMUIR, cilt.27, sa.3, ss.870-873, 2011 (SCI-Expanded)
- XXII. **CHARACTERISTICS OF FLAXSEED OIL FROM TWO DIFFERENT FLAX PLANTS**  
Zhang Z., Wang L., Li D., Li S., ÖZKAN N.  
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, cilt.14, sa.6, ss.1286-1296, 2011 (SCI-Expanded)
- XXIII. **Rheological properties of extruded dispersions of flaxseed-maize blend**  
WU M., Li D., WANG L., ÖZKAN N., Mao Z.  
JOURNAL OF FOOD ENGINEERING, cilt.98, sa.4, ss.480-491, 2010 (SCI-Expanded)
- XXIV. **Anti-thixotropic properties of waxy maize starch dispersions with different pasting conditions**  
Wang B., Li D., Wang L., ÖZKAN N.  
CARBOHYDRATE POLYMERS, cilt.79, sa.4, ss.1130-1139, 2010 (SCI-Expanded)
- XXV. **Dynamic viscoelastic properties of sweet potato studied by dynamic mechanical analyzer**  
Li Q., Li D., Wang L., ÖZKAN N., Mao Z.  
CARBOHYDRATE POLYMERS, cilt.79, sa.3, ss.520-525, 2010 (SCI-Expanded)
- XXVI. **Effect of concentrated flaxseed protein on the stability and rheological properties of soybean oil-in-water emulsions**  
Wang B., Li D., Wang L., ÖZKAN N.  
JOURNAL OF FOOD ENGINEERING, cilt.96, sa.4, ss.555-561, 2010 (SCI-Expanded)
- XXVII. **Morphological properties and thermoanalysis of micronized cassava starch**  
Ren G., Li D., Wang L., ÖZKAN N., Mao Z.  
CARBOHYDRATE POLYMERS, cilt.79, sa.1, ss.101-105, 2010 (SCI-Expanded)
- XXVIII. **Production of hemicellulose-based biodegradable films from agricultural wastes**  
Bahcegul E., ÖZKAN N., Bakir U.  
NEW BIOTECHNOLOGY, cilt.25, 2009 (SCI-Expanded)
- XXIX. **Rheological properties of waxy maize starch and xanthan gum mixtures in the presence of sucrose**  
Wang B., Wang L., Li D., Ozkan N., Li S., Mao Z.  
CARBOHYDRATE POLYMERS, cilt.77, sa.3, ss.472-481, 2009 (SCI-Expanded)
- XXX. **Preparation and characterization of polymer coated superparamagnetic magnetite nanoparticle agglomerates**  
TURAL B., ÖZKAN N., VOLKAN M.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, cilt.70, sa.5, ss.860-866, 2009 (SCI-Expanded)
- XXXI. **Starch pastes thinning during high-pressure homogenization**  
Che L., Wang L., Li D., Bhandari B., Oezkan N., Chen X. D., Mao Z.  
CARBOHYDRATE POLYMERS, cilt.75, sa.1, ss.32-38, 2009 (SCI-Expanded)
- XXXII. **Study on Creep Properties of Japonica Cooked Rice and Its Relationship with Rice Chemical Compositions and Sensory Evaluation**  
Chang S., Li D., Lan Y., ÖZKAN N., Shi J., Chen X. D., Mao Z.  
INTERNATIONAL JOURNAL OF FOOD ENGINEERING, cilt.5, sa.3, 2009 (SCI-Expanded)
- XXXIII. **Rheological properties of dilute aqueous solutions of cassava starch**  
Che L., Li D., Wang L., ÖZKAN N., Chen X. D., Mao Z.  
CARBOHYDRATE POLYMERS, cilt.74, sa.3, ss.385-389, 2008 (SCI-Expanded)
- XXXIV. **Influence of alfalfa powder concentration and granularity on rheological properties of alfalfa-wheat dough**  
HAO C., WANG L., Li D., Oezkan N., WANG D., CHEN X. D., MAO Z.  
JOURNAL OF FOOD ENGINEERING, cilt.89, sa.2, ss.137-141, 2008 (SCI-Expanded)

- XXXV. **Effect of flaxseed gum addition on rheological properties of native maize starch**  
Wang Y., Wang L., Li D., Oezkan N., Chen X. D., Mao Z.  
JOURNAL OF FOOD ENGINEERING, cilt.89, sa.1, ss.87-92, 2008 (SCI-Expanded)
- XXXVI. **Evaluation of natural zeolite as a viscosity-modifying agent for cement-based grouts**  
Sahmaran M., ÖZKAN N., KESKİN S., UZAL B., YAMAN İ. Ö., Erdem T. K.  
CEMENT AND CONCRETE RESEARCH, cilt.38, sa.7, ss.930-937, 2008 (SCI-Expanded)
- XXXVII. **Preparation and characterization of ni-nitrilotriacetic acid bearing Poly(Methacrylic acid) coated superparamagnetic magnetite nanoparticles**  
TURAL B., KAYA M., Oezkan N., Volkan M.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, cilt.8, sa.2, ss.695-701, 2008 (SCI-Expanded)
- XXXVIII. **Optimization of ethanol-water extraction of lignans from flaxseed**  
Zhang Z., Li D., Wang L., Ozkan N., Chen X. D., Mao Z., Yang H.  
SEPARATION AND PURIFICATION TECHNOLOGY, cilt.57, sa.1, ss.17-24, 2007 (SCI-Expanded)
- XXXIX. **Effect of high-pressure homogenization on the structure of cassava starch**  
CHE L., Li D., Wang L., Oezkan N., Chen X. D., Mao Z.  
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, cilt.10, sa.4, ss.911-922, 2007 (SCI-Expanded)
- XL. **Dynamic Viscoelastic Properties of Rice Kernels Studied by Dynamic Mechanical Analyzer**  
CHEN K., LI D., WANG L., ÖZKAN N., CHEN X. D., MAO Z.  
INTERNATIONAL JOURNAL OF FOOD ENGINEERING, cilt.3, sa.2, 2007 (SCI-Expanded)
- XLI. **Stickiness, functionality, and microstructure of food powders**  
Chen X. D., Ozkan N.  
DRYING TECHNOLOGY, cilt.25, ss.959-969, 2007 (SCI-Expanded)
- XLII. **Influences of Microemulsion Cross-linking Reaction and Ball-milling on Particle Size Characteristics of Potato and Maize Starches**  
Zhou Y., Li D., Wang L., ÖZKAN N., Chen X. D., MAO Z.  
INTERNATIONAL JOURNAL OF FOOD ENGINEERING, cilt.2, sa.4, 2006 (SCI-Expanded)
- XLIII. **Removal of a model protein foulant from metal surfaces**  
Xin H., CHEN X. D., Ozkan N.  
AIChE JOURNAL, cilt.50, sa.8, ss.1961-1973, 2004 (SCI-Expanded)
- XLIV. **Combined ohmic and plate heating of hamburger patties: Quality of cooked patties**  
Özkan N., HO I., Farid M.  
Journal of Food Engineering, cilt.63, sa.2, ss.141-145, 2004 (SCI-Expanded)
- XLV. **On-line fouling/cleaning detection by measuring electric resistance-equipment development and application to milk fouling detection and chemical cleaning monitoring**  
Chen X. D., Li D. X., Lin S. X., Özkan N.  
Journal of Food Engineering, cilt.61, sa.2, ss.181-189, 2004 (SCI-Expanded)
- XLVI. **Effects of time, temperature, and pressure on the cake formation of milk powders**  
Özkan N., WITHY B., CHEN X. D.  
Journal of Food Engineering, cilt.58, sa.4, ss.355-361, 2003 (SCI-Expanded)
- XLVII. **Cleaning rate in the uniform cleaning stage for whey protein gel deposits**  
XİN H., Chen X., Ozkan N.  
FOOD AND BIOPRODUCTS PROCESSING, cilt.80, ss.240-246, 2002 (SCI-Expanded)
- XLVIII. **Characterization of stickiness and cake formation in whole and skim milk powders**  
Özkan N., Walisinghe N., CHEN X. D.  
Journal of Food Engineering, cilt.55, sa.4, ss.293-303, 2002 (SCI-Expanded)
- XLIX. **Whey protein-based gel as a model material for studying initial cleaning mechanisms of milk fouling**  
XİN H., Chen X., Ozkan N.  
JOURNAL OF FOOD SCIENCE, cilt.67, sa.7, ss.2702-2711, 2002 (SCI-Expanded)
- L. **Application of a depth sensing indentation hardness test to evaluate the mechanical properties of food materials**  
Ozkan N., Xin H., CHEN X.

- JOURNAL OF FOOD SCIENCE, cilt.67, sa.5, ss.1814-1820, 2002 (SCI-Expanded)
- LI. **Rheological analysis of ceramic pastes**  
Özkan N., OYSU C., BRISCOE B. J., AYDIN I.  
Journal of the European Ceramic Society, cilt.19, sa.16, ss.2883-2891, 1999 (SCI-Expanded)
- LII. **Preparation of ceria-gadolinia electrolytes by the tape rolling technique**  
Ozkan N., BRISCOE B.  
JOURNAL OF MATERIALS RESEARCH, cilt.13, sa.3, ss.665-674, 1998 (SCI-Expanded)
- LIII. **Drying kinetics of water-based ceramic suspensions for tape casting**  
Briscoe B., Lo Biundo G., Özkan N.  
Ceramics International, cilt.24, sa.5, ss.347-357, 1998 (SCI-Expanded)
- LIV. **Modeling of powder compaction: A review**  
Aydin I., BRISCOE B., Ozkan N.  
MRS BULLETIN, cilt.22, sa.12, ss.45-51, 1997 (SCI-Expanded)
- LV. **Drying of aqueous ceramic suspensions**  
BRISCOE B., LO BIUNDO G., Özkan N.  
Key Engineering Materials, ss.354-357, 1997 (SCI-Expanded)
- LVI. **Optimisation of ceramic suspensions**  
BRISCOE B. J., KHAN A. U., LUCKHAM P. F., Özkan N.  
Key Engineering Materials, ss.281-284, 1997 (SCI-Expanded)
- LVII. **Modelling of binder burnout process for ceramic compacts**  
BRISCOE B., SAVVAS T., Özkan N.  
Key Engineering Materials, ss.678-681, 1997 (SCI-Expanded)
- LVIII. **Shape prediction procedure for die pressed ceramic compacts**  
Özkan N., BRISCOE B.  
Key Engineering Materials, ss.670-673, 1997 (SCI-Expanded)
- LIX. **Compaction behaviour of agglomerated alumina powders**  
Briscoe B. J., Özkan N.  
Powder Technology, cilt.90, sa.3, ss.195-203, 1997 (SCI-Expanded)
- LX. **Characterization of ceramic pastes by an indentation hardness test**  
BRISCOE B., Ozkan N.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, cilt.17, sa.14, ss.1675-1683, 1997 (SCI-Expanded)
- LXI. **Overall shape of sintered alumina compacts**  
Ozkan N., BRISCOE B.  
CERAMICS INTERNATIONAL, cilt.23, sa.6, ss.521-536, 1997 (SCI-Expanded)
- LXII. **Characterization of die pressed green compacts**  
ÖZKAN N., BRISCOE B. J.  
Journal Of The European Ceramic Society, cilt.17, ss.697-711, 1997 (SCI-Expanded)
- LXIII. **The surface topography of compacted agglomerates; A means to optimize compaction conditions**  
Ozkan N., BRISCOE B.  
POWDER TECHNOLOGY, cilt.86, sa.2, ss.201-207, 1996 (SCI-Expanded)
- LXIV. **3-D PROFILES AND SURFACE-TOPOGRAPHY OF ALUMINA COMPACTS**  
AYDIN I., BRISCOE B., OZKAN N.  
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, cilt.35, sa.2, ss.345-352, 1995 (SCI-Expanded)
- LXV. **Prediction of overall shape of sintered alumina compacts**  
Özkan N., Briscoe B. J.  
Journal of the European Ceramic Society, cilt.14, sa.2, ss.143-151, 1994 (SCI-Expanded)
- LXVI. **DEVELOPMENT OF PB-RICH (BI, PB)3SR2CA2CU1OX PHASE DURING REFORMATION OF LEAD DOPED 2223 SUPERCONDUCTING PHASE FROM MELT QUENCHED GLASS**  
OZKAN N., GLOWACKI B.  
PHYSICA C, cilt.194, ss.157-162, 1992 (SCI-Expanded)
- LXVII. **INFRARED ZONE-MELTING PROCESS FOR YBA2CU3O7-DELTA WIRES**

OZKAN N., GLOWACKI B., ROBINSON E., FREEMAN P.

JOURNAL OF MATERIALS RESEARCH, cilt.6, sa.9, ss.1829-1837, 1991 (SCI-Expanded)

**LXVIII. FORMATION OF YBA<sub>2</sub>CU<sub>3</sub>O<sub>7-X</sub> THICK-FILMS BY A DIFFUSION PROCESS BETWEEN Y<sub>2</sub>BACUO<sub>5</sub> AND (BACUO<sub>2</sub>, CUO)**

FREEMAN P., OZKAN N., HONEYBALL P., GLOWACKI B.

SUPERCONDUCTOR SCIENCE & TECHNOLOGY, cilt.4, 1991 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

**I. The characterisation of die friction as a means to reduce component machining and attain near-net shape form**

Özkan N., BRISCOE B., AYDIN I.

Tribology Series, cilt.34, ss.365-369, 1998 (Scopus)

## **Kitap & Kitap Bölümleri**

**I. Ohmic Cooking of Food**

FARİD M. M., WEIJIAN K., ÖZKAN N.

Ohmic Heating in Food Processing, Hosahalli S . Ramaswamy , Michele Marcotte , Sudhir Sastry , Khalid Abdelrahim, Editör, CRS Press, ss.411-422, 2014

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

**I. ELECTROCHEMICAL HYDROGEN SEPARATION FROM REFORMATE USING POLYBENZIMIDAZOLE/MOF COMPOSITE MEMBRANES**

Durmuş G. N. B., Eren E. O., Devrim Y., Çolpan C. Ö., Özkan N.

23rd World Hydrogen Energy Conference: Bridging Continents by H<sub>2</sub>, WHEC 2022, İstanbul, Türkiye, 26 - 30 Haziran 2022, ss.403-405

**II. Evaluation of the Properties of Corn Cob Hemicellulose Based Biodegradable Films Obtained by Extrusion and Solvent Casting Methods**

Aknalan Balık B., Özkan N., Bölükbaşı U.

35th INTERNATIONAL CONFERENCE of THE POLYMER PROCESSING SOCIETY, İzmir, Türkiye, 26 - 30 Mayıs 2019

**III. Fabrication of cross-linked Polybenzimidazole membranes for high temperature PEM fuel cells and investigation of the amount of cross-linker used on membrane performance**

ÖZDEMİR y., ÖZKAN N., DEVRİM Y.

The Second International Hydrogen Technologies Congress (IHTEC-2017), Adana, Türkiye, 15 - 18 Mart 2017, ss.47-52

**IV. Rheology of alumina in organic and aqueous media and its effect on the final formed ceramic bodies**

BRISCOE B., KHAN A., LUCKHAM P., Ozkan N.

XIIth International Congress on Rheology, QUIEBEC CITY, Kanada, 18 - 23 Ağustos 1996, ss.484

**V. Influence of the High T<sub>c</sub> Superconducting Particles Orientation During Semi-Wet Extrusion on the Critical Current Anisotropy**

Özkan N., Glowacki B.

7th CIMTEC World Ceramics Congress, Trieste, İtalya, 02 Temmuz 1990, ss.663-671

## **Desteklenen Projeler**

ÖZKAN N., ERGÜN E. G., BAYRAM G., Yükseköğretim Kurumları Destekli Proje, Polimer ve Polimer Kompozitlerin Üç

Boyutlu (3D) Baskı Yöntemi ile Üretilmesi, 2017 - 2019

ÖZKAN N., Yükseköğretim Kurumları Destekli Proje, YÜKSEK SICAKLIK YAKIT PİLLERİ İÇİN DÜŞÜK ASİT KAYIPLI PBI ÇAPRAZ BAĞLI MEMBRANLARIN HAZIRLANMASI VE KARAKTERİZASYONU, 2017 - 2017

ÖZKAN N., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÖZKAN N., BEHLÜLGİL A. K., KÖKSAL S., GÜZEL A., Yükseköğretim Kurumları Destekli Proje, Merkez Kaboratuvar AR-GE Eğitim ve Ölçme Merkezinde Malzeme Karakterizasyonu, 2014 - 2016

ÖZKAN N., Çağan U., Devrim Y., Yükseköğretim Kurumları Destekli Proje, Kendiliğinden nemlendirilmiş membran elektrot düzeneğinin polimer elektrolit membranlı yakıt hücreleri için geliştirilmesi, 2014 - 2014

ÖZKAN N., TÜBİTAK Projesi, Tarımsal atıklardan elde edilen hemiselüloz temelli biyopolimerlerden ekstrüzyon vasıtası ile filmlerin üretilmesi, 2012 - 2014

ÖZKAN N., ÇAM İ., BEHLÜLGİL A. K., KÖKSAL S., GÜZEL A., Yükseköğretim Kurumları Destekli Proje, Ar-Ge Eğitim Ve Ölçme Merkezinde Malzeme Karakterizasyonu, 2011 - 2013

## Bilimsel Dergilerdeki Faaliyetler

International Journal Of Food Engineering, Editörler Kurulu Üyesi, 2014 - Devam Ediyor

## Bilimsel Hakemlikler

INDUSTRIAL CROPS AND PRODUCTS, SCI Kapsamındaki Dergi, Nisan 2022

FOOD AND BIOPRODUCTS PROCESSING, SCI-E Kapsamındaki Dergi, Temmuz 2019

POLYMER TESTING, SCI Kapsamındaki Dergi, Mart 2019

COMPOSITE STRUCTURES, SCI Kapsamındaki Dergi, Şubat 2018

COMPOSITE STRUCTURES, SCI Kapsamındaki Dergi, Şubat 2018

## Metrikler

Yayın: 77

Atıf (WoS): 1877

Atıf (Scopus): 2293

H-İndeks (WoS): 30

H-İndeks (Scopus): 31

## Burslar

Ph.D. Bursary awarded by Imperial College, Üniversite, 1991 - 1994

## Akademi Dışı Deneyim

ODTÜ

Auckland Üniversitesi, Yeni Zelanda

Imperial Collge

Imperial Collge

Cambridge Üniversitesi

Developmental Technologies BV