

## Prof. NECATİ ÖZKAN

### Personal Information

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### Biography

Necati Özkan is a Professor in the Graduate School of Natural and Applied Sciences at Middle East Technical University, Turkey. His current research interests are in rheological characterization of materials, preparation of nanoparticles, and biodegradable polymers. He received his BE degree (Metallurgical Engineering) from Istanbul Technical University (Turkey), his MSc degree (Materials Science and Engineering) from Stanford University (USA), and his PhD degree (Chemical Engineering) from Imperial College (UK). Prior to joining Middle East Technical University as an academic staff, he was an academic staff at the University of Auckland, a research associate at Imperial College (UK), a research assistant in Cavendish Laboratory at Cambridge University (UK), and a scientist in Developmental Technologies BV (Holland). Currently, he is the Chairman of Polymer Science and Technology Program at Middle East Technical University.

### Education Information

Doctorate, Imperial College of Science, Technology and Medicine, Mühendislik Fakültesi, Kimya Mühendisliği, United Kingdom 1991 - 1994

Masters (Non-Thesis), Stanford University, Mühendislik Fakültesi, Malzeme Bilimi Ve Mühendisliği, United States Of America 1986 - 1988

Undergraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 1980 - 1984

### Dissertations

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

### Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Polymeric Materials, Material Characterization, Thermal Properties, Engineering and Technology

### Academic Titles / Tasks

Professor, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Polymer Science And Technology, 2009 - Continues

Associate Professor, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Polymer Science And Technology, 2004 - 2009

Associate Professor, University Of Auckland, Mühendislik Fakültesi, Kimya Ve Malzeme Mühendisliği , 1997 - 2003

Lecturer PhD, Imperial College, Engineering, Chemical, 1995 - 1997

Research Assistant, Imperial College of Science, Technology and Medicine, Mühendislik Fakültesi, Kimya Mühendisliği , 1991 - 1994

Research Assistant, University of Cambridge, Cavendish Laboratory, Superconductivity Centre, 1989 - 1991

Researcher, DEVTECH, 1988 - 1989

## Academic and Administrative Experience

Middle East Technical University, Graduate School of Natural and Applied Sciences, Polimer Bilimi Ve Teknolojisi (YI) (Tezli), 2014 - Continues

Middle East Technical University, Graduate School of Natural and Applied Sciences, Polimer Bilim Ve Teknoloji (Dr), 2010 - 2012

## Advising Theses

ÖZKAN N., Development of non-noble (Co-N/MWCNT) and polybenzimidazole-modified (Pt-PBI/MWCNT) electrocatalysts for high-temperature PEM fuel cell applications, Postgraduate, E.Öğuzhan(Student), 2020

ÖZKAN N., Performance of the nanosilica filled neat epoxy and carbon fiber filament wound composites, Postgraduate, E.Sapancı(Student), 2019

Özkan N., Devrim Y., Cross-Linked Polybenzimidazole Membranes for High Temperature PEM Fuel Cells, Postgraduate, Y.Özdemir(Student), 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, Postgraduate, D.ERDEMİR(Student), 2015

BÖLÜKBAŞI U., ÖZKAN N., Investigation of processing parameters on production of hemicellulose based films from different agricultural residues via extrusion, Postgraduate, B.Akınalan(Student), 2014

ÖZKAN N., Effect of biomass pretreatment conditions on the glucose and biodegradable film production from lignocellulosic wastes, Doctorate, E.BAHÇEGÜL(Student), 2013

Özkan N., Devrim Y., Development of self-humidifying nano-composite membrane for polymer electrolyte membrane fuel cell , Postgraduate, U.Çaçan(Student), 2012

ÖZKAN N., Investigation of alkaline pretreatment parameters on amulti-product basis for the co-production of glucose and hemicellulose based films from corn cobs, Postgraduate, H.EZGİ(Student), 2012

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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, vol.47, no.45, pp.19690-19701, 2022 (Journal Indexed in SCI Expanded)
- II. **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, vol.46, no.57, pp.29556-29567, 2021 (Journal Indexed in SCI)
- III. **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, vol.45, no.58, pp.33957-33967, 2020 (Journal Indexed in SCI)
- IV. **3D Printing of Hemicellulosic Biopolymers Extracted from Lignocellulosic Agricultural Wastes**  
Bahcegul E. G. , Bahcegul E., ÖZKAN N.  
ACS APPLIED POLYMER MATERIALS, vol.2, no.7, pp.2622-2632, 2020 (Journal Indexed in SCI)
- V. **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, vol.26, no.8, pp.3397-3403, 2018 (Journal Indexed in SCI)
- VI. **Fabrication and Characterization of Cross-linked Polybenzimidazole Based Membranes for High Temperature PEM Fuel Cells**  
ÖZDEMİR Y., ÖZKAN N., Devrim Y.  
ELECTROCHIMICA ACTA, vol.245, pp.1-13, 2017 (Journal Indexed in SCI)
- VII. **Preparation of silica coated cobalt ferrite magnetic nanoparticles for the purification of histidine-tagged proteins**  
Aygur G., Kaya M., Özkan N., Kocabıyık S., Volkan M.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.87, pp.64-71, 2015 (Journal Indexed in SCI)
- VIII. **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, vol.37, no.22, pp.3370-3376, 2014 (Journal Indexed in SCI)
- IX. **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, vol.4, no.107, pp.62295-62300, 2014 (Journal Indexed in SCI)
- X. **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, vol.4, no.64, pp.34117-34126, 2014 (Journal Indexed in SCI)
- XI. **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, vol.9, no.4, pp.457-466, 2013 (Journal Indexed in SCI)
- XII. **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, vol.149, pp.582-585, 2013 (Journal Indexed in SCI)
- XIII. **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, vol.103, no.1, pp.440-445, 2012 (Journal Indexed in SCI)
- XIV. **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, vol.8, no.4, 2012 (Journal Indexed in SCI)
- XV. **Rheological study and fractal analysis of flaxseed gum gels**  
Wang Y., Li D., Wang L., Wu M., ÖZKAN N.  
CARBOHYDRATE POLYMERS, vol.86, no.2, pp.594-599, 2011 (Journal Indexed in SCI)
- XVI. **Dynamic mechanical properties of flaxseed gum based edible films**  
WANG Y., LÍ D., WANG L., YANG L., ÖZKAN N.  
CARBOHYDRATE POLYMERS, vol.86, no.2, pp.499-504, 2011 (Journal Indexed in SCI)
- XVII. **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, vol.72, no.8, pp.968-973, 2011 (Journal Indexed in SCI)

- XVIII. **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, vol.27, no.3, pp.870-873, 2011 (Journal Indexed in SCI)
- XIX. **CHARACTERISTICS OF FLAXSEED OIL FROM TWO DIFFERENT FLAX PLANTS**  
Zhang Z., Wang L., Lí D., Li S., ÖZKAN N.  
INTERNATIONAL JOURNAL OF FOOD PROPERTIES, vol.14, no.6, pp.1286-1296, 2011 (Journal Indexed in SCI)
- XX. **Rheological properties of extruded dispersions of flaxseed-maize blend**  
WU M., Lí D., WANG L., ÖZKAN N., Mao Z.  
JOURNAL OF FOOD ENGINEERING, vol.98, no.4, pp.480-491, 2010 (Journal Indexed in SCI)
- XXI. **Anti-thixotropic properties of waxy maize starch dispersions with different pasting conditions**  
Wang B., Li D., Wang L., ÖZKAN N.  
CARBOHYDRATE POLYMERS, vol.79, no.4, pp.1130-1139, 2010 (Journal Indexed in SCI)
- XXII. **Dynamic viscoelastic properties of sweet potato studied by dynamic mechanical analyzer**  
Li Q., Lí D., Wang L., ÖZKAN N., Mao Z.  
CARBOHYDRATE POLYMERS, vol.79, no.3, pp.520-525, 2010 (Journal Indexed in SCI)
- XXIII. **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, vol.96, no.4, pp.555-561, 2010 (Journal Indexed in SCI)
- XXIV. **Morphological properties and thermoanalysis of micronized cassava starch**  
Ren G., Li D., Wang L., ÖZKAN N., Mao Z.  
CARBOHYDRATE POLYMERS, vol.79, no.1, pp.101-105, 2010 (Journal Indexed in SCI)
- XXV. **Production of hemicellulose-based biodegradable films from agricultural wastes**  
Bahcegul E., ÖZKAN N., Bakir U.  
NEW BIOTECHNOLOGY, vol.25, 2009 (Journal Indexed in SCI)
- XXVI. **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, vol.77, no.3, pp.472-481, 2009 (Journal Indexed in SCI)
- XXVII. **Preparation and characterization of polymer coated superparamagnetic magnetite nanoparticle agglomerates**  
TURAL B., ÖZKAN N., VOLKAN M.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.70, no.5, pp.860-866, 2009 (Journal Indexed in SCI)
- XXVIII. **Starch pastes thinning during high-pressure homogenization**  
Che L., Wang L., Li D., Bhandari B., Oezkan N., Chen X. D. , Mao Z.  
CARBOHYDRATE POLYMERS, vol.75, no.1, pp.32-38, 2009 (Journal Indexed in SCI)
- XXIX. **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, vol.5, no.3, 2009 (Journal Indexed in SCI)
- XXX. **Rheological properties of dilute aqueous solutions of cassava starch**  
Che L., Li D., Wang L., ÖZKAN N., Chen X. D. , Mao Z.  
CARBOHYDRATE POLYMERS, vol.74, no.3, pp.385-389, 2008 (Journal Indexed in SCI)
- XXXI. **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, vol.89, no.1, pp.87-92, 2008 (Journal Indexed in SCI)
- XXXII. **Influence of alfalfa powder concentration and granularity on rheological properties of alfalfa-wheat dough**  
HAO C., WANG L., Lí D., Oezkan N., WANG D., CHEN X. D. , MAO Z.  
JOURNAL OF FOOD ENGINEERING, vol.89, no.2, pp.137-141, 2008 (Journal Indexed in SCI)
- XXXIII. **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, vol.38, no.7, pp.930-937, 2008 (Journal Indexed in SCI)
- XXXIV. **Preparation and characterization of ni-nitritoltriactic acid bearing Poly(Methacrylic acid) coated superparamagnetic magnetite nanoparticles**  
TURAL B., KAYA M., Oezkan N., Volkan M.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.8, no.2, pp.695-701, 2008 (Journal Indexed in SCI)
- XXXV. **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, vol.57, no.1, pp.17-24, 2007 (Journal Indexed in SCI)
- XXXVI. **Stickiness, functionality, and microstructure of food powders**  
Chen X. D. , Ozkan N.  
DRYING TECHNOLOGY, vol.25, pp.959-969, 2007 (Journal Indexed in SCI)
- XXXVII. **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, vol.3, no.2, 2007 (Journal Indexed in SCI)
- XXXVIII. **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, vol.10, no.4, pp.911-922, 2007 (Journal Indexed in SCI)
- XXXIX. **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, vol.2, no.4, 2006 (Journal Indexed in SCI)
- XL. **Removal of a model protein foulant from metal surfaces**  
Xin H., CHEN X. D. , Ozkan N.  
AIChE JOURNAL, vol.50, no.8, pp.1961-1973, 2004 (Journal Indexed in SCI)
- XLI. **Combined ohmic and plate heating of hamburger patties: Quality of cooked patties**  
Özkan N., HO I., Farid M.  
Journal of Food Engineering, vol.63, no.2, pp.141-145, 2004 (Journal Indexed in SCI)
- XLII. **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, vol.61, no.2, pp.181-189, 2004 (Journal Indexed in SCI)
- XLIII. **Effects of time, temperature, and pressure on the cake formation of milk powders**  
Özkan N., WIThey B., CHEN X. D.  
Journal of Food Engineering, vol.58, no.4, pp.355-361, 2003 (Journal Indexed in SCI)
- XLIV. **Characterization of stickiness and cake formation in whole and skim milk powders**  
Özkan N., Walisinghe N., CHEN X. D.  
Journal of Food Engineering, vol.55, no.4, pp.293-303, 2002 (Journal Indexed in SCI)
- XLV. **Cleaning rate in the uniform cleaning stage for whey protein gel deposits**  
XİN H., Chen X., Ozkan N.  
FOOD AND BIOPRODUCTS PROCESSING, vol.80, pp.240-246, 2002 (Journal Indexed in SCI)
- XLVI. **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, vol.67, no.7, pp.2702-2711, 2002 (Journal Indexed in SCI)
- XLVII. **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, vol.67, no.5, pp.1814-1820, 2002 (Journal Indexed in SCI)
- XLVIII. **Rheological analysis of ceramic pastes**  
Özkan N., OYSU C., Briscoe B. J. , Aydin I.  
Journal of the European Ceramic Society, vol.19, no.16, pp.2883-2891, 1999 (Journal Indexed in SCI)

- XLIX. Preparation of ceria-gadolinia electrolytes by the tape rolling technique**  
 Ozkan N., BRISCOE B.  
 JOURNAL OF MATERIALS RESEARCH, vol.13, no.3, pp.665-674, 1998 (Journal Indexed in SCI)
- L. Drying kinetics of water-based ceramic suspensions for tape casting**  
 Briscoe B., Lo Biundo G., Özkan N.  
 Ceramics International, vol.24, no.5, pp.347-357, 1998 (Journal Indexed in SCI)
- LI. Modeling of powder compaction: A review**  
 Aydin I., BRISCOE B., Ozkan N.  
 MRS BULLETIN, vol.22, no.12, pp.45-51, 1997 (Journal Indexed in SCI)
- LII. Shape prediction procedure for die pressed ceramic compacts**  
 Özkan N., BRISCOE B.  
 Key Engineering Materials, pp.670-673, 1997 (Journal Indexed in SCI Expanded)
- LIII. Drying of aqueous ceramic suspensions**  
 BRISCOE B., LO BIUNDO G., Özkan N.  
 Key Engineering Materials, pp.354-357, 1997 (Journal Indexed in SCI Expanded)
- LIV. Modelling of binder burnout process for ceramic compacts**  
 BRISCOE B., SAVVAS T., Özkan N.  
 Key Engineering Materials, pp.678-681, 1997 (Journal Indexed in SCI Expanded)
- LV. Optimisation of ceramic suspensions**  
 BRISCOE B. J. , KHAN A. U. , LUCKHAM P. F. , Özkan N.  
 Key Engineering Materials, pp.281-284, 1997 (Journal Indexed in SCI Expanded)
- LVI. Compaction behaviour of agglomerated alumina powders**  
 Briscoe B. J. , Özkan N.  
 Powder Technology, vol.90, no.3, pp.195-203, 1997 (Journal Indexed in SCI)
- LVII. Characterization of ceramic pastes by an indentation hardness test**  
 BRISCOE B., Ozkan N.  
 JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.17, no.14, pp.1675-1683, 1997 (Journal Indexed in SCI)
- LVIII. Characterization of die pressed green compacts**  
 ÖZKAN N., BRISCOE B. J.  
 Journal Of The European Ceramic Society, vol.17, pp.697-711, 1997 (Journal Indexed in SCI Expanded)
- LIX. Overall shape of sintered alumina compacts**  
 Ozkan N., BRISCOE B.  
 CERAMICS INTERNATIONAL, vol.23, no.6, pp.521-536, 1997 (Journal Indexed in SCI)
- LX. The surface topography of compacted agglomerates; A means to optimize compaction conditions**  
 Ozkan N., BRISCOE B.  
 POWDER TECHNOLOGY, vol.86, no.2, pp.201-207, 1996 (Journal Indexed in SCI)
- LXI. 3-D PROFILES AND SURFACE-TOPOGRAPHY OF ALUMINA COMPACTS**  
 AYDIN I., BRISCOE B., OZKAN N.  
 INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.35, no.2, pp.345-352, 1995 (Journal Indexed in SCI)
- LXII. Prediction of overall shape of sintered alumina compacts**  
 Özkan N., Briscoe B. J.  
 Journal of the European Ceramic Society, vol.14, no.2, pp.143-151, 1994 (Journal Indexed in SCI)
- LXIII. 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, vol.194, pp.157-162, 1992 (Journal Indexed in SCI)
- LXIV. INFRARED ZONE-MELTING PROCESS FOR YBA2CU3O7-DELTA WIRES**  
 OZKAN N., GLOWACKI B., ROBINSON E., FREEMAN P.  
 JOURNAL OF MATERIALS RESEARCH, vol.6, no.9, pp.1829-1837, 1991 (Journal Indexed in SCI)
- LXV. FORMATION OF YBA2CU3O7-X THICK-FILMS BY A DIFFUSION PROCESS BETWEEN Y2BACUO5 AND**

(BACUO<sub>2</sub>, CUO)

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

SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol.4, 1991 (Journal Indexed in SCI)

## Articles Published in Other Journals

- 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, vol.34, pp.365-369, 1998 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **Ohmic Cooking of Food**  
FARİD M. M. , WEIJIAN K., ÖZKAN N.  
in: Ohmic Heating in Food Processing, Hosahalli S . Ramaswamy , Michele Marcotte , Sudhir Sastry , Khalid Abdelrahim, Editor, CRS Press, pp.411-422, 2014

## Refereed Congress / Symposium Publications in Proceedings

- I. **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, Turkey, 26 - 30 May 2019
- II. **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, Turkey, 15 - 18 March 2017, pp.47-52
- III. **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, Canada, 18 - 23 August 1996, pp.484
- IV. **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, Italy, 02 July 1990, pp.663-671

## Supported Projects

ÖZKAN N., ERGÜN E. G. , BAYRAM G., Project Supported by Higher Education Institutions, Polimer ve Polimer Kompozitlerin Üç Boyutlu (3D) Baskı Yöntemi ile Üretilmesi, 2017 - 2019

ÖZKAN N., Project Supported by Higher Education Institutions, YÜKSEK SICAKLIK YAKIT PİLLERİ İÇİN DÜŞÜK ASİT KAYIPLI PBI ÇAPRAZ BAĞLI MEMBRANLARIN HAZIRLANMASI VE KARAKTERİZASYONU, 2017 - 2017

ÖZKAN N., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÖZKAN N., BEHLÜLGİL A. K. , KÖKSAL S., GÜZEL A., Project Supported by Higher Education Institutions, Merkez Kaboratuvar AR-GE Eğitim ve Ölçme Merkezinde Malzeme Karakterizasyonu, 2014 - 2016

ÖZKAN N., Çaçan U., Devrim Y., Project Supported by Higher Education Institutions, Kendiliğinden nemlendirilmiş

membran elektrot düzeneğinin polimer elektrolit membranlı yakıt hücreleri için geliştirilmesi, 2014 - 2014  
ÖZKAN N., TÜBİTAK Project, 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., Project Supported by Higher Education Institutions, Ar-Ge Eğitim Ve Ölçme Merkezinde Malzeme Karakterizasyonu, 2011 - 2013

## **Activities in Scientific Journals**

International Journal Of Food Engineering, Committee Member, 2014 - Continues

## **Scientific Refereeing**

FOOD AND BIOPRODUCTS PROCESSING, Journal Indexed in SCI-E, July 2019

POLYMER TESTING, SCI Journal, March 2019

COMPOSITE STRUCTURES, SCI Journal, February 2018

COMPOSITE STRUCTURES, SCI Journal, February 2018

## **Citations**

Total Citations (WOS):1664

h-index (WOS):26

## **Scholarships**

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