

Prof. ABDULLAH ÖZTÜRK

Personal Information

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Education Information

Doctorate, University Of Missouri-Rolla, Seramik Mühendisliği, United States Of America 1988 - 1991

Foreign Languages

English, C1 Advanced

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1991 - Continues

Professional Experience

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2003 - 2010

Advising Theses

ÖZTÜRK A., Production and characterization of yttria stabilized zirconia ceramic blocks for dental applications, Post Graduate, M.KAPLAN(Student), 2017

ÖZTÜRK A., Hydrothermal synthesis of TiO₂ nanostructures for photocatalytic and photovoltaic applications, Doctorate, N.ERDOĞAN(Student), 2017

ÖZTÜRK A., Development and photocatalytic properties of potassium titanate nanostructure embedded resin composites, Doctorate, D.KAPUSUZ(Student), 2016

YAMAN İ. Ö. , ÖZTÜRK A., Effect of triisopropanol amine and calcium nitrate on the strength development of glass fiber reinforced concrete, Post Graduate, M.ONUR(Student), 2015

ÖZTÜRK A., Synthesis of boron and zirconium co-doped titanium dioxide nanopowders by sol-gel technique, Post Graduate, L.AĞARTAN(Student), 2014

ÖZTÜRK A., Preparation of boron-zirconium co-doped photocatalytic titanium dioxide powder, Post Graduate, T.TOKMAKCI(Student), 2013

TOKYAY M., ÖZTÜRK A., A study on the utilization of waste cement-bonded wood particle board as a raw material and a secondary fuel in cement manufacturing, Post Graduate, M.YILMAZ(Student), 2012

ÖZTÜRK A., Photocatalytic properties of silver loaded titanium dioxide powders produced by mechanical ball milling, Post Graduate, B.AYSİN(Student), 2012

ÖZTÜRK A., YAMAN İ. Ö. , Comparison of compressive strength test procedures for blended cement, Post Graduate, E.ÜLKER(Student), 2010

ÖZTÜRK A., Photocatalytic activity of apatite-deposited titanium dioxide powder, Post Graduate, K.SOYSAL(Student), 2010

ÖZTÜRK A., YAMAN İ. Ö. , Synthesis of alinite cement using soda solid waste, Post Graduate, A.GÜNEŞ(Student), 2010

ÖZTÜRK A., YAMAN İ. Ö. , Utilization of soda and beer wastes in cementitious systems, Post Graduate, B.ALEESSA(Student), 2009

ÖZTÜRK A., Production and characterization of magnesium oxychloride cement based polishing bricks for polishing of ceramic tiles, Post Graduate, M.SAİD(Student), 2008

ÖZTÜRK A., Development of a glass-ceramic for biomedical applications, Doctorate, J.PARK(Student), 2008

ÖZTÜRK A., Investigation of parameters affecting the drying rate of sanitary wares, Post Graduate, E.GÜNGÖR(Student), 2005

ÖZTÜRK A., Influence of B₂O₃ addition on the microstructure of mica based glass-ceramics, Post Graduate, H.AYKUT(Student), 2005

ÖZTÜRK A., Tribological properties of a tightly woven carbon/carbon composite, Post Graduate, K.KARAVELİ(Student), 2005

ÖZTÜRK A., Wear of a mica-containing glass-ceramic, Post Graduate, T.KÜÇÜK(Student), 2003

ÖZTÜRK A., Investigation of the effect of titania additions on the strength and elastic modulus of a mica glass ceramic by bending test and ultrasonic velocity measurements, Post Graduate, A.DERELİ(Student), 2002

ÖZTÜRK A., Ultrasonic evaluation of mica glass-ceramics, Post Graduate, P.HOUMAN(Student), 2002

ÖZTÜRK A., Production of biocompatible mica glass ceramics for dental applications, Post Graduate, H.DER(Student), 1998

ÖZTÜRK A., Production and characterization of ceramic condyle type gas filters, Post Graduate, Ş.YUMRUKÇAL(Student), 1997

ÖZTÜRK A., The Development of glass ceramics from central Anatolian basalts, Post Graduate, M.MİHRAN(Student), 1994

ÖZTÜRK A., Effect of carbon and boron additions on pressureless sintering of silicon carbide, Post Graduate, C.YAĞCI(Student), 1993

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

- **Production and properties of phase separated porous glass**
Ertus E. B. , Vakifahmetoglu C., ÖZTÜRK A.
CERAMICS INTERNATIONAL, vol.46, pp.4947-4951, 2020 (Journal Indexed in SCI)
- **Synthesis and enhanced photocatalytic activity of nitrogen-doped triphasic TiO₂ nanoparticles**
Erdogan N., Bouziani A., PARK J., Micusik M., Kim S. Y. , Majkova E., Omastova M., ÖZTÜRK A.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.377, pp.92-100, 2019 (Journal Indexed in SCI)
- **Alkaline Hydrothermal Synthesis, Characterization, and Photocatalytic Activity of TiO₂ Nanostructures: The Effect of Initial TiO₂ Phase**
Erdogan N., PARK J., Choi W., Kim S. Y. , ÖZTÜRK A.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.19, pp.1511-1519, 2019 (Journal Indexed in SCI)
- **Facile synthesis of CsPbBr₃/PbSe composite clusters**
Thang Phan Nguyen T. P. N. , ÖZTÜRK A., PARK J., Sohn W., Tae Hyung Lee T. H. L. , Jang H. W. , Kim S. Y.
SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS, vol.19, pp.10-17, 2018 (Journal Indexed in SCI)
- **Removal of Trace Amounts of Copper from Concentrated Hydrochloric Acid Solutions**
Erdogan M., Karakaya E., Aras M. S. , Karagul S. C. , Ersoy M. K. , Öztürk A., Karakaya İ.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.13, pp.10934-10947, 2018 (Journal Indexed in SCI)
- **Production and properties of tooth-colored yttria stabilized zirconia ceramics for dental applications**
Kaplan M., PARK J., Kim S. Y. , ÖZTÜRK A.
CERAMICS INTERNATIONAL, vol.44, pp.2413-2418, 2018 (Journal Indexed in SCI)
- **Effects of Graphene Transfer and Thermal Annealing on Anticorrosive Properties of Stainless Steel**

Oh J. H. , Han S., Kim T., PARK J., ÖZTÜRK A., Kim S. Y.

JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.17, pp.7835-7842, 2017 (Journal Indexed in SCI)

- **Control of the Crystal Growth Shape in CH₃NH₃PbBr₃ Perovskite Materials**

Le Q. V. , Shin J. W. , Jung J., PARK J., ÖZTÜRK A., Kim S. Y.

JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.17, pp.8169-8174, 2017 (Journal Indexed in SCI)

- **Mechanical and biological properties of Al₂O₃ and TiO₂ co-doped zirconia ceramics**

Agac O., Gozutok M., TÜRKOĞLU ŞAŞMAZEL H., ÖZTÜRK A., PARK J.

CERAMICS INTERNATIONAL, vol.43, pp.10434-10441, 2017 (Journal Indexed in SCI)

- **MoS₂-nanosheet/graphene-oxide composite hole injection layer in organic light-emitting diodes**

Park M., Thang Phan Nguyen T. P. N. , Choi K. S. , PARK J., ÖZTÜRK A., Kim S. Y.

ELECTRONIC MATERIALS LETTERS, vol.13, pp.344-350, 2017 (Journal Indexed in SCI)

- **A study on microstructural characterization of the interface between apatite-wollastonite based glass ceramic and feldspathic dental porcelain**

PEKKAN G., PEKKAN K., PARK J., ÖZTÜRK A.

CERAMICS INTERNATIONAL, vol.42, pp.19245-19249, 2016 (Journal Indexed in SCI)

- **Synthesis and enhanced photocatalytic activity of molybdenum, iron, and nitrogen triple-doped titania nanopowders**

Erdogan N., PARK J., ÖZTÜRK A.

CERAMICS INTERNATIONAL, vol.42, pp.16766-16774, 2016 (Journal Indexed in SCI)

- **Hydrothermal synthesis of 3D TiO₂ nanostructures using nitric acid: Characterization and evolution mechanism**

Erdogan N., ÖZTÜRK A., PARK J.

CERAMICS INTERNATIONAL, vol.42, pp.5985-5994, 2016 (Journal Indexed in SCI)

- **Effect of initial water content and calcination temperature on photocatalytic properties of TiO₂ nanopowders synthesized by the sol-gel process**

Agartan L., Kapusuz D., PARK J., ÖZTÜRK A.

CERAMICS INTERNATIONAL, vol.41, pp.12788-12797, 2015 (Journal Indexed in SCI)

- **Silver-loaded TiO₂ powders prepared through mechanical ball milling**

Aysin B., ÖZTÜRK A., PARK J.

CERAMICS INTERNATIONAL, vol.39, pp.7119-7126, 2013 (Journal Indexed in SCI)

- **Boron and zirconium co-doped TiO₂ powders prepared through mechanical ball milling**

Tokmakci T., ÖZTÜRK A., PARK J.

CERAMICS INTERNATIONAL, vol.39, pp.5893-5899, 2013 (Journal Indexed in SCI)

- **Sol-gel synthesis and photocatalytic activity of B and Zr co-doped TiO₂**

Kapusuz D., PARK J., ÖZTÜRK A.

JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.74, pp.1026-1031, 2013 (Journal Indexed in SCI)

- **Properties of alinite cement produced by using soda sludge**

Kesim A. G. , TOKYAY M., YAMAN İ. Ö. , ÖZTÜRK A.

ADVANCES IN CEMENT RESEARCH, vol.25, pp.104-111, 2013 (Journal Indexed in SCI)

- **BIOACTIVITY OF APATITE-WOLLASTONITE GLASS-CERAMICS PRODUCED BY MELTING CASTING**

PARK J., ÖZTÜRK A.

SURFACE REVIEW AND LETTERS, vol.20, 2013 (Journal Indexed in SCI)

- **Silicon carbide particle embedded magnesium oxychloride cement composite bricks for polishing of porcelain stoneware tiles**

ÖZTÜRK A., Timucin M.

ADVANCES IN APPLIED CERAMICS, vol.110, pp.400-408, 2011 (Journal Indexed in SCI)

- **Production and characterization of magnesium oxychloride cement bricks for fine polishing of porcelain stoneware tiles**

ÖZER M. B. , ÖZTÜRK A., Timucin M.

INDUSTRIAL CERAMICS, vol.31, pp.89-98, 2011 (Journal Indexed in SCI)

- **Preparation and photocatalytic activity of apatite-precipitated TiO₂**

Soysal K., PARK J., You S. H. , Shin D. W. , Bae W. T. , ÖZTÜRK A.

JOURNAL OF CERAMIC PROCESSING RESEARCH, vol.12, pp.176-182, 2011 (Journal Indexed in SCI)

- **Tribological behavior of alumina-added apatite-wollastonite glass-ceramics in simulated body fluid**
PARK J., You S., Shin D., ÖZTÜRK A.
MATERIALS CHEMISTRY AND PHYSICS, vol.124, pp.113-119, 2010 (Journal Indexed in SCI)
- **FRICITION AND WEAR BEHAVIOR OF SELECTED DENTAL CERAMICS**
PARK J., PEKKAN G., ÖZTÜRK A.
SURFACE REVIEW AND LETTERS, vol.16, pp.653-661, 2009 (Journal Indexed in SCI)
- **Preparation of a transparent hydrophilic TiO₂ thin film photocatalyst**
Chun H., Park S., You S., Kang G., Bae W., Kim K., Park J., ÖZTÜRK A., Shin D.
JOURNAL OF CERAMIC PROCESSING RESEARCH, vol.10, pp.219-223, 2009 (Journal Indexed in SCI)
- **Effect of microstructure on the tribological properties of apatite-wollastonite glass ceramic**
Park J., ÖZTÜRK A., You S., Park S., Bae W., Shin D.
JOURNAL OF CERAMIC PROCESSING RESEARCH, vol.9, pp.230-233, 2008 (Journal Indexed in SCI)
- **Effect of TiO₂ addition on the crystallization and tribological properties of MgO-CaO-SiO₂-F₂O₅-F glasses**
Park J., ÖZTÜRK A.
THERMOCHIMICA ACTA, vol.470, pp.60-66, 2008 (Journal Indexed in SCI)
- **Determination of the influence of TiO₂ on the elastic properties of a mica based glass ceramic by ultrasonic velocity measurements**
Gur C. H. , Ozturk A.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.351, pp.3655-3662, 2005 (Journal Indexed in SCI)
- **Effects of liquid rubber modification on the behaviour of epoxy resin**
ÖZTÜRK A., KAYNAK C., Tincer T.
European Polymer Journal, vol.37, pp.2353-2363, 2001 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- **Preparation of 2D g-C₃N₄/TiO₂ Heterojunction Nanocomposites for Photocatalytic Applications**
Öztürk A., Park J., Gündoğmuş P., Bouziani A., Erdoğan N.
Uluslararası Metalurji ve Malzeme Kongresi, İstanbul, Turkey, 25 - 27 October 2018, vol.1, no.1, pp.547-550
- **Synthesis of Molybdenum and Iron Co doped Nano Titania powders by Hydrothermal Method and their Enhanced Photocatalytic Activity**
ERDOĞAN N., PARK J., ÖZTÜRK A.
New Trends in solar Cells Conference, 19 - 22 May 2016
- **SYNTHESIS OF TiO₂ NANOSTRUCTURES VIA HYDROTHERMAL METHOD**
Bilgin N., Agartan L., PARK J., ÖZTÜRK A.
Conference and Exhibition on Materials Science and Technology (MS and T), Pennsylvania, United States Of America, 12 - 16 October 2014, vol.253, pp.177-186
- **PRODUCTION OF SILVER LOADED PHOTOCATALYTIC TiO₂ POWDERS BY BALL MILLING**
Aysin B., PARK J., ÖZTÜRK A.
3rd International Conference on NANOCON, Brno, Czech Republic, 21 - 23 September 2011, pp.521-526
- **INFLUENCE OF BORON AND/OR ZIRCONIUM DOPING ON MORPHOLOGY AND OPTICAL PROPERTIES OF TITANIA**
Kapusuz D., PARK J., ÖZTÜRK A.
3rd International Conference on NANOCON, Brno, Czech Republic, 21 - 23 September 2011, pp.81-87
- **Production of Nano Size TiO₂ Sol and Highly Efficient Photocatalytic TiO₂ Powder by Mechanical Ball Milling**
Corapci E., Aysin B., ÖZTÜRK A., PARK J.
6th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA6), Prague, Czech Republic, 13 - 16 June 2010, pp.123

Other Publications

- **Synthesis of Photocatalytic Titanium Dioxide Nanopowders Using Different Acid Catalysers**

Supported Projects

- ÖZTÜRK A., GÜNDOĞMUŞ P., Project Supported by Higher Education Institutions, ATIK SULARDAKİ ORGANİKLERİN TEMİZLENMESİNDE KULLANILMAK İÇİN TiO₂ NANOTOZLARININ HİDROTERMAL SENTEZİ, 2018 - 2019
- ÖZTÜRK A., GÜNDOĞMUŞ P., PARK J., Project Supported by Higher Education Institutions, Hafif Zırh Uygulamaları için B4C Seramiklerinin Üretimi ve Mekanik Özellikleri, 2018 - 2019
- ÖZTÜRK A., ERGİN M., Project Supported by Higher Education Institutions, Görünür ışık emilimine sahip ve sudaki organik artıkları temizleyebilen TiO₂ esaslı nanotozların sentezlenmesi, 2017 - 2017
- ÖZTÜRK A., Project Supported by Higher Education Institutions, MAGNEZYUM KALSİYUM TİTANAT SERAMİKLERDE DİELEKTRİK ÖZELLİK MİKROYAPI İLİŞKİSİ, 2017 - 2017
- ÖZTÜRK A., Project Supported by Higher Education Institutions, NA₂O-B₂O₃-SiO₂ SİSTEMİNDE GÖZENEKLİ CAMLARIN ÜRETİMİ VE KARAKTERİZASYONU, 2017 - 2017
- ÖZTÜRK A., Project Supported by Higher Education Institutions, Hiyerarşik olarak Gözeneklendirilmiş Saydam Camların Üretimi ve Karakterizasyonu, 2016 - 2016
- ÖZTÜRK A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016
- ÖZTÜRK A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016
- ÖZTÜRK A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016
- ÖZTÜRK A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016
- ÖZTÜRK A., TİMUÇİN M., Project Supported by Higher Education Institutions, Kordiyerit Esaslı Seramik Kaynak Altığı Üretimi ve Karakterizasyonu, 2014 - 2015
- ÖZTÜRK A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014
- ÖZTÜRK A., AĞARTAN L., Project Supported by Higher Education Institutions, Bor ve/veya Zirkonyum katkılı TiO₂ nano parçacıklarının Sol-Jel ve Solvotermal Teknikleriyle Üretimi, 2013 - 2013
- ÖZTÜRK A., AĞARTAN L., Project Supported by Higher Education Institutions, POTASYUM TİTANAT İNCE FİBER KATKILI POLİMER KOMPOZİTLERİN ÜRETİMİ VE KARAKTERİZASYONU, 2013 - 2013
- ÖZTÜRK A., Project Supported by Higher Education Institutions, Nano Boyutlu TiO₂ Tozlarından Boya-Sentezli Güneş Enerjisi Pili Üretimi, 2011 - 2011
- ÖZTÜRK A., Project Supported by Higher Education Institutions, Bilyalı Öğütmeyle Fotokatalitik TiO₂ Tozu Üretimi, 2009 - 2009

Citations

Total Citations (WOS):337
h-index (WOS):9