

Prof. ZİYA ENGİN ERKMEN

Personal Information

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Biography

Ziya Engin Erkmen 26.03.1960 yılında Eskişehir, Şeker Fabrikaları lojmanlarında doğmuştur. Babası Celal Erkmen Fabrika'nın doktoru, annesi Emine Nazan Erkmen fabrikanın Y. Kimya Mühendisidir. İlköğretimini 1966-1969 Yunusemre ve 1969-1971 İlhami Ahmet Örnakal (İstanbul) da tamamlayarak, orta ve lise eğitimini 1971-1979 yıllarında Saint Joseph Fransız erkek lisesinde bitirmiştir. 1979-1983 arası İTÜ Kimya Metalurji Fakültesini birincilikle bitirerek Lisans diplomasını almıştır. 1985-1987 arasında U. of Michigan AnnArbor Nükleer Mühendislik Nükleer Malzemelerde Yüksek Lisansını tamamlamış, daha sonra 1988-1992 senelerinde U. of Florida Nükleer Mühendislik Bölümünden doktora ünvanını almıştır. Evli ve 2 çocuk sahibi olan araştırmacı halen Marmara Üniversitesinde Prof. olarak görev yapmaktadır. En önemli 3 eseri birisi deney kitabı olmak üzere 2. ve 3. baskıları yapılmış ders kitaplarıdır. Denizle ilgili her türlü spor, kayak yapmak, kitap okumak ve doğa yürüyüşleri başlıca ilgi alanlarıdır.

Education Information

Doctorate, University of Florida, Faculty of Engineering, Nuclear Engineering, United States Of America 1988 - 1992

Post Graduate, University of Michigan, Faculty of Engineering, Nuclear Engineering, United States Of America 1985 - 1987

Under Graduate, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 1979 - 1983

Foreign Languages

French, C1 Advanced

English, C1 Advanced

Dissertations

Doctorate, Interaction of Yttria and Molybdenum with UF_n gas (n = 4,6) at high temperatures, University of Florida, 1992

Research Areas

Metallurgical and Materials Engineering, Production Metallurgy

Academic Titles / Tasks

Professor, Marmara University, Faculty Of Engineering, Metallurgical And Material Engineering, 2007 - 2025

Associate Professor, Marmara University, Faculty Of Engineering, Metallurgical And Material Engineering, 2000 - 2007

Assistant Professor, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, 1993 - 2000

Professional Experience

Head of Department, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, 2012 - 2015

TAEK komisyon üyesi, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, 2011 - 2015

Head of Department, Marmara University, Faculty of Engineering, Metallurgical and Material Engineering, 2001 - 2003

Courses

Malzeme Karakterizasyonu , Under Graduate, 2020 - 2021

Seramik Malzemeler ve Proses Teknikleri, Under Graduate, 2020 - 2021

Faz Diyagramları, Under Graduate, 2020 - 2021

Advising Theses

ERKMEN Z. E. , The production of alumina-titania biocomposite combined with hydroxyapatite (HA), Post Graduate, B.NİLGÜN(Student), 2014

Erkmen Z. E. , Kayalı E. S. , Ticari inert cam katkılı hidroksiapatit-alümina ve hidroksiapatit-zirkonya kompozitlerin üretimi ve karakterizasyonu, Post Graduate, B.BULUT(Student), 2014

ERKMEN Z. E. , Seramik sanayii hızlı pişirim fırınlarında kullanılan rulo malzemesi müllitin üretimi ve bazı mekanik özelliklerinin belirlenmesi, Post Graduate, S.YORULMAZ(Student), 1998

Erkmen Z. E. , cam fiber takviyeli abc kompozitler ve mekanik özellikleri, Post Graduate, a.çetinkaya(Student), 1996

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Konya Teknik Üniversitesi, May, 2019

Associate Professor Exam, Associate Professor Exam, Marmara Üniversitesi, November, 2015

Associate Professor Exam, Associate Professor Exam, Kütahya Dumlupınar Üniversitesi, May, 2012

Associate Professor Exam, Associate Professor Exam, İzmir Tınaztepe Üniversitesi, April, 2012

Associate Professor Exam, Associate Professor Exam, Sakarya Üniversitesi, March, 2010

Taught Courses And Trainings

Erkmen Z. E. , Seramiklerin Karakterizasyonu XRD kullanımı, 1994 - 1994

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

I. Characterization and bioactivity of hydroxyapatite ZrO₂ composites with commercial inert glass CIG addition

berrak b., DEMİRKOL N., ERKMEN Z. E. , KAYALI E. S.

FRONTIERS OF FUNDAMENTAL AND COMPUTATIONAL PHYSICS, vol.631, pp.166-172, 2015 (Journal Indexed in SCI Expanded)

II. Production of hydroxylapatite based titania biocomposite as porous bone-like scaffold

ÇETİNER B. N. , ERKMEN Z. E.

Archives of Materials Science and Engineering, vol.65, pp.66-71, 2014 (Journal Indexed in SCI Expanded)

- III. **2 B Ertuğ B N Çetiner G Sadullahoğlu H Gökçe Z E Erkmen M L Öveçoğlu The effect of mechanical alloying on the microhardness and fracture toughness of BaTiO₃**
ERTUĞ B., ÇETİNER B. N. , SADULLAHOĞLU G., GÖKÇE H., ERKMEN Z. E. , ÖVEÇOĞLU L.
Acta Physica Polonica A, vol.123, pp.188-190, 2013 (Journal Indexed in SCI)
- IV. **Production and Characterization of Bioglass®-Titania Reinforced Hydroxylapatite Composite**
ÇETİNER B. N. , ERKMEN Z. E.
Key Engineering Materials, vol.493, pp.566-571, 2012 (Journal Indexed in SCI Expanded)
- V. **Characterization and Crystallization Kinetics of Glass ceramics developed from Erdemir Blast Furnace Slags containing Cr₂O₃ and TiO₂ nucleants**
ÖVEÇOĞLU L., ERKMEN Z. E. , ÇATAKLI E.
Advances in Applied Ceramics, vol.108, pp.57-66, 2009 (Journal Indexed in SCI)
- VI. **Microstructural morphologies of slag based glass ceramics nucleated with 5 wt Cr₂O₃ and 5 wt Cr₂O₃ 5 wt TiO₂**
ERKMEN Z. E. , ÇATAKLI E., ÖVEÇOĞLU L.
EURO CERAMICS VII, PT 1-3, vol.2062, pp.863-866, 2008 (Journal Indexed in SSCI)
- VII. **Creep of Hard Porcelain During Firing**
YILMAZ S., ERKMEN Z. E.
American Ceramic Society Bulletin, vol.86, 2007 (Journal Indexed in SCI)
- VIII. **Improvement on the slip casting of Bayer-processed alumina**
TAMBAŞ T., ERKMEN Z. E. , Oezgen S.
AMERICAN CERAMIC SOCIETY BULLETIN, vol.86, no.2, pp.9201-9213, 2007 (Journal Indexed in SCI)
- IX. **Sintering of Synthetic Hydroxyapatite Zirconia Compacts**
Genç Y., OKTAR F. N. , ERKMEN Z. E. , GÖLLER G., Derya T., Toykan D., Haybat H.
Key Engineering Materials, vol.264-268, pp.2087-2090, 2004 (Journal Indexed in SCI Expanded)
- X. **Sintering effect on mechanical properties of enamel derived and synthetic hydroxyapatite zirconia composites**
GENÇ Y., OKTAR F. N. , ERKMEN Z. E. , GÖLLER G., TOYKAN D., HAYBAT H.
EURO CERAMICS VIII, PTS 1-3, vol.264, pp.1961-1964, 2004 (Journal Indexed in SCI Expanded)
- XI. **The effect of heat treatment on the morphology of D-Gun sprayed hydroxyapatite coatings**
ERKMEN Z. E.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH, vol.48, no.6, pp.861-868, 1999 (Journal Indexed in SCI)
- XII. **A Study on the Reaction of Yttria in Flowing Uranium Hexafluoride UF₆ Gas at 900 °C**
ERKMEN Z. E.
Journal of Nuclear Materials, vol.257, pp.152-161, 1999 (Journal Indexed in SCI)
- XIII. **Effect of Al₂O₃ additions on the thermal expansion behavior of aLi₂O ZnO SiO₂ glass ceramic**
TOPLAN N., ERKMEN Z. E. , DEMİRKESEN E.
JOURNAL OF THE AMERICAN CERAMIC SOCIETY, vol.82, pp.3619-3621, 1999 (Journal Indexed in SSCI)
- XIV. **Performance of molybdenum with UF₄ at high temperatures as a wall material for space reactors**
ERKMEN Z. E. , Anghaie S.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, vol.28, no.10, pp.2123-2128, 1997 (Journal Indexed in SCI)
- XV. **INTERACTION OF YTTRIA WITH URANIUM FLUORIDE GASES (UF(N), N=4, 6) AT HIGH-TEMPERATURES**
ERKMEN Z. E. , anghaie s.
JOURNAL OF THE AMERICAN CERAMIC SOCIETY, vol.77, no.6, pp.1624-1632, 1994 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Designing an indoor/outdoor particle filter integrated with solar panels**
Süleymanoğlu F., Özüdoğru E., İri E., ERKMEN Z. E.
Seramik Türkiye, pp.96-103, 2017 (Other Refereed National Journals)
- II. **Characteristics and Biocompatibility of the HA based Two Ternary Biocomposites**
BULUT B., ERKMEN Z. E. , KAYALI E. S.
Key Engineering Materials, vol.720, pp.130-140, 2017 (Refereed Journals of Other Institutions)
- III. **Production and Characterization of Alumina Titania Biocomposite**
ÇETİNER B. N. , ERKMEN Z. E.
AIP Conference Proceedings, vol.1653, 2015 (Non-Refreed Journal)

Books & Book Chapters

- I. **Modern Fizik Takviyeli Malzeme Karakterizasyonu ve Temel İlkeleri**
Erkmen Z. E. , Erkmen Z. E.
Nobel Yayın Dağıtım, Ankara, 2019
- II. **Ceramic Processing Techniques Laboratory Book**
Erkmen Z. E. , Erkmen Z. E.
Marmara Üniversitesi Yayınevi, İstanbul, 2016
- III. **Ceramic Processing Techniques Laboratory Book including the determination of basic thermodynamic constants**
ERKMEN Z. E.
Marmara Üniversitesi Yayınevi, İstanbul, 2016
- IV. **Ceramic Materials and Processing Phase Equilibria Physical Modelling in Electron Microscopy Examination Questions and Answers**
ERKMEN Z. E.
Yalın Yayıncılık, 2016
- V. **Metaller ve Malzeme Mühendisleri için Faz Diyagramları**
Erkmen Z. E. , Erkmen Z. E.
Marmara Üniversitesi Yayınevi, İstanbul, 2015
- VI. **Metaller ve Malzeme Mühendisliği için Faz Diyagramları**
ERKMEN Z. E.
Marmara Üniversitesi Yayınevi, İstanbul, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **Characteristics and Biocompatibility of the Hydroxyapatite Based Two Ternary Biocomposites**
BULUT B., ERKMEN Z. E. , KAYALI E. S.
BIOCERAMİCS28, 18 - 21 October 2016
- II. **Production and Characterization of Alumina Titania biocomposite**
ÇETİNER B. N. , ERKMEN Z. E.
APMAS 2014, 24 - 27 April 2014, pp.1-7
- III. **Comparison of Microstructural and Mechanical Properties of Hydroxyapatite-ZrO₂ Composites with Commercial Inert Glass Addition**
Bulut B., DEMİRKOL N., ERKMEN Z. E. , Kayali E. S.
1st International Multidisciplinary Microscopy Congress (INTERM), Antalya, Turkey, 10 - 13 October 2013, vol.154, pp.241-246

Patent

Erkmen Z. E. , Pres ve ısıtma yöntemiyle toz materyalleri birleştiren küresel kalıp yapılanması, Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration, 2018

Erkmen Z. E. , Öğütme alışımlama ve ısıl işlem gerçekleştiren bir tertibat, Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration, 2018

Activities in Scientific Journals

seramik türkiye, First Editor, 2013 - 2019

Memberships / Tasks in Scientific Organizations

Türkiye Seramik Derneği, Member of Science Committee, 1993 - Continues, Turkey

TAEK (Türkiye Atom Enerjisi Kurumu), Member, 2011 - 2015

Scientific Refereeing

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Porland Porselen San. ve Tic. A.Ş., Turkey, September 2017

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Kaleseramik Çanakkale Kalebodur Seramik San. A.Ş., Turkey, June 2016

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Kale Seramik Çanakkale Kalebodur Seramik San. A.Ş., Turkey, April 2015

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Serapool Porselen Sanayi ve Tic. A.Ş., Turkey, May 2013

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Kar Porselen Sanayi ve Tic. Limited Şirketi, Turkey, December 2012

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Serapool Porselen Sanayi ve Tic. A.Ş., Turkey, June 2012

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, İznik Çini ve Seramikleri Sanayi ve Tic. Ltd. Şti., Turkey, January 2012

TTGV, Kaleporselen A.Ş., Turkey, December 2008

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Kaleseramik Çanakkale Kalebodur Seramik A.Ş., Turkey, May 2008

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Marmara University, Turkey, March 2008

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Kaleporselen Çanakkale Kalebodur Seramik A.Ş., Turkey, November 2007

Scientific Consultations

Kaleseramik Çanakkale Kalebodur Seramik San. A.Ş., Other, Marmara University, Faculty of Engineering, Metallurgical And Material Engineering, Turkey, 2017 - 2018

Kar Porselen Sanayi ve Porselen Tic Ltd. Şirketi, Other, Marmara University, Faculty of Engineering, Metallurgical And Material Engineering, Turkey, 2012 - 2012

Serapool Porselen Sanayi ve Tic. A.Ş., Other, Marmara University, Faculty of Engineering, Metallurgical And Material Engineering, Turkey, 2010 - 2012

Kaleporselen A.Ş., Other, Marmara University, Faculty of Engineering, Metallurgical And Material Engineering, Turkey, 2008 - 2009

Tasks In Event Organizations

Erkmen Z. E. , 8. International European Ceramic Congress, Scientific Congress, İstanbul, Turkey, Temmuz 2003

Mobility Activity

Erasmus Programme, Student Mobility, Ecole Nationale d'Ingénieurs de Tarbes, France, 2011 - 2011

Citations

Total Citations (WOS):109

h-index (WOS):5