

## Prof. Emek DERUN

### Personal Information

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34210, Esenler, İstanbul



### International Researcher IDs

ScholarID: KIRjZhoAAAAJ

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ScopusID: 8611674800

Yoksis Researcher ID: 111121

### Education Information

Doctorate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering,  
Kimya Mühendisliği, Turkey 2000 - 2005

Postgraduate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering,  
Kimya Mühendisliği, Turkey 1998 - 2000

Undergraduate, Yıldız Technical University, Faculty Of Chemical And Metallurgical  
Engineering, Kimya Mühendisliği, Turkey 1994 - 1998

### Foreign Languages

English, C1 Advanced

German, B1 Intermediate

### Certificates, Courses and Trainings

- Education Management and Planning, CAMSCAN Apollo 300 cihazı eğitim sertifikası, TETRA Teknolojik Sistemler, 2010
- Education Management and Planning, PERKIN ELMER Clarus 500 GC, Clarus 500 MS ve TMHS cihazları eğitim sertifikası, TETRA Teknolojik Sistemler, 2009
- Education Management and Planning, PERKIN ELMER Diamond DSC cihazı eğitim sertifikası, TETRA Teknolojik Sistemler, 2009
- Education Management and Planning, PERKIN ELMER Lambda 25 cihazı eğitim sertifikası, TETRA Teknolojik Sistemler, 2008
- Education Management and Planning, PERKIN ELMER Raman 400F cihazı eğitim sertifikası, TETRA Teknolojik Sistemler, 2008
- Quality Management, Deney ve Kalibrasyon Laboratuvar Kalitesinin Temini ve Laboratuvar Arası Karşılaştırma Ölçümü, Türk Standartları Enstitüsü (TSE) Kalibrasyon Merkezi Başkanlığı, 2008
- Education Management and Planning, PERKIN ELMER Optima 2100 DV cihazı eğitim sertifikası, TETRA Teknolojik

Sistemler, 2007

Education Management and Planning, PERKIN ELMER Spectrum One FT-IR Spectrometer cihazı eğitim sertifikası, TETRA Teknolojik Sistemler, 2005

Education Management and Planning, PERKIN ELMER Diamond TG/DTA cihazı eğitim sertifikası, TETRA Teknolojik Sistemler, 2004

Education Management and Planning, PANALYTICAL Minipal 4 cihazı eğitim sertifikası, TETRA Teknolojik Sistemler, 2004

Education Management and Planning, PANALYTICAL Xpert Pro MPD cihazı eğitim sertifikası, TETRA Teknolojik Sistemler, 2004

## Dissertations

Doctorate, Sb<sub>2</sub>Te<sub>3</sub> ve Bi<sub>2</sub>Te<sub>3</sub> İÇERİKLİ BİLEŞİKLERİN TERMOELEKTRİK, YAPISAL ve MİKROYAPISAL ÖZELLİKLERİNİN İNCELENMESİ, Yıldız Teknik Üniversitesi, 2005

Postgraduate, BORİK ASİT ATIĞI ve ÇELİK TEL KATKILI HAFİF BETON ÜRETİMİ, Yıldız Teknik Üniversitesi, 2000

## Research Areas

Boron Chemistry, Chemical Engineering and Technology, Chemical Technologies, Environmental Chemistry and Technology, Material science and engineering, Ceramic Materials, Semiconductor and Superconductor Materials, Cement and Concrete, Material Characterization, Food Technology, Engineering and Technology

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2021 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2016 - 2021

Research Assistant PhD, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2005 - 2006

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 1999 - 2005

## Academic and Administrative Experience

Fakülte Akademik Kurul Üyesi, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2022 - Continues

Head of Department, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2022 - Continues

Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, 2009 - 2012

Fakülte Kurulu Üyesi, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, 2009 - 2012

## Courses

### Doctorate

Boron Technologies, Doctorate, 2018 - 2019

Doktora Tezi, Doctorate, 2016 - 2017

## **Postgraduate**

Industrial Colloidal Systems, Postgraduate, 2018 - 2019

Yüksek Lisans Tezi, Postgraduate, 2016 - 2017

Termal Analizin Endüstriyel Uygulamaları, Postgraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

## **Undergraduate**

Kimya Mühendisliği Hesaplamaları, Undergraduate, 2016 - 2017

Enstrümental Analizler Lab., Undergraduate, 2016 - 2017

Biyoproses Mühendisliği, Undergraduate, 2016 - 2017

Kimya Mühendisliği Uygulamaları, Undergraduate, 2016 - 2017

Kimya Endüstrisinde Korozyon, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Enstrümental Analizler, Undergraduate, 2016 - 2017, 2015 - 2016

Bitirme Çalışması, Undergraduate, 2016 - 2017

Analysis Methods in Chemical Industry, Undergraduate, 2016 - 2017

Kimya Mühendisliği Lab III, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

Stokiyometri, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Bitirme Çalışması, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

Kimya Mühendisliği Hesaplamaları, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Enstrümental Analizler Lab., Undergraduate, 2015 - 2016

Analysis Methods in Chemical Industry, Undergraduate, 2015 - 2016, 2014 - 2015

Kimya Mühendisliği Uygulamaları, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008

Kütle ve Enerji Denklikleri, Undergraduate, 2011 - 2012, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

Korozyon, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2007 - 2008, 2006 - 2007

Kütle ve Enerji Denklikleri, Undergraduate, 2010 - 2011

## **Supervised Theses**

Derun E., Atık Su Arıtımında Kullanılmak Üzere Farklı Morfolojilerde Kobalt Alüminat Sentezi, Postgraduate, Z.Öztürk(Student), Continues

Derun E., Sürdürülebilir ve Çevre Dostu Fonksiyonel Malzemelerin Üretimi ve Uygulama Alanları, Doctorate, D.Uygunöz(Student), Continues

Derun E., Nano Malzemelerle Katkılanmış Faz Değişken Materyaller Kullanarak Termal Yönetim Sağlanması, Doctorate, K.Sömek(Student), Continues

Derun E., Bor Katkılı Polimer Filmlerin Geliştirilmesi, Doctorate, E.Muhammet(Student), Continues

Derun E., Karbon Yakalama Teknolojilerinde Proses Modellenmesi, Postgraduate, S.Baykal(Student), Continues

Derun E., Ayçiçeği Bitkisinden Biyokütle Enerjisi Üretimi, Postgraduate, S.Habibzade(Student), Continues

Derun E., Kauçuk Devulkanizasyon Yöntemleri ve Uygulamaları, Postgraduate, A.Ensar(Student), Continues

Derun E., Bitkisel Kaynakların İlaç Endüstrisinde Kullanımı, Doctorate, Z.Kıral(Student), Continues

Derun E., Cam Yüzeyinde Korozyon Oluşumunun İncelenmesi, Postgraduate, R.Melisa(Student), Continues

Derun E., Uçucu Külden Elde Edilen Geopolimerin Sulardan Krom Gideriminde Değerlendirilmesi, Postgraduate, M.Öz(Student), Continues

Derun E., Hidrotermal Yolla Üretilen Katkılı Magnezyum Borat Örneklerinin Endüstriyel Boyaların Atık Sulardan Arıtımında Değerlendirilmesi, Postgraduate, B.Ak(Student), Continues

Pişkin M. B., Derun E., Yara Tedavisinde Hidrojel İçerikli Biyomalzeme Üretimi, Doctorate, M.Abahuni(Student), 2024

Derun E., Killerden Üretilen Spinel Yapıların Farklı Boyar Maddelerin Gideriminde Değerlendirilmesi, Postgraduate, E.Sencar(Student), 2024

Derun E., Ananas Meyve ve Kabuğundan Bromelain (C39H66N2O29) Ekstrakt Eldesi ve Uygulama Alanlarının

Araştırılması, Postgraduate, A.Turhan(Student), 2024

Derun E., Termoplastik Kompozitlerde arayüzey özelliklerinin nano-malzemeler kullanımıyla geliştirilmesi, Doctorate, R.Özbaş(Student), 2024

Derun E., Boya Katkılı Polimer Film Sentezi, Postgraduate, İ.Şengör(Student), 2023

Derun E., Bellek Bozuklukları Tedavisinde Bitkisel İçerikli Cilt Yaması Kullanımı, Postgraduate, E.Muhammet(Student), 2023

Derun E., Uçucu külden elde edilen geopolimerlerin metal doplama yöntemiyle özelliklerinin geliştirilmesi, Postgraduate, H.Özkan(Student), 2022

Derun E., Ayciçeği Atığı Mangan Demir Oksit Kompozitinin Boyar Madde Gideriminde Kullanılması, Postgraduate, D.Uygunöz(Student), 2022

Derun E., Çimento Üretiminde Uçucu Kül Yerine Şist Kullanımı, Postgraduate, Ş.Salın(Student), 2022

Derun E., Nano Malzeme Katkılı Biosolvent Üretimi ve Performanslarının İncelenmesi, Postgraduate, K.Sömek(Student), 2022

Derun E., Gıda Atıklarından Demir Nanopartikül Sentezi, Postgraduate, T.Aydoğan(Student), 2022

Derun E., Hidrotermal Yöntemle Lantanborat Sentezi, Postgraduate, S.Argun(Student), 2022

Derun E., Geopolimer Üretiminde Nanopartiküllerin Kullanımının İncelenmesi, Postgraduate, B.Seda(Student), 2019

Derun E., Endüstriyel Atıklardan Elde Edilen Alüminasilikat Yapılı Adsorbanların Ağır Metal Gideriminde Değerlendirilmesi, Doctorate, F.Demir(Student), 2019

Derun E., FARKLI NANOPARTİKÜLLERİN VE ENDÜSTRİYEL ATIKLARIN ÇİMENTO HARCİ ÜRETİMİNDE DEĞERLENDİRİLMESİ, Doctorate, M.Yıldırım(Student), 2019

Derun E., Endüstriyel Atık Sulardaki Ağır Metallerin Çeşitli Adsorbanlar Kullanılarak Giderilmesi, Postgraduate, E.Burcu(Student), 2019

Derun E., The Research of the Enamel Frits with Lithium Effects on Surface Characteristics of Vitreous Enamel Coatings, Postgraduate, A.Murat(Student), 2019

Derun E., Bor Atıklardan Kıymetli Metallerin Geri Kazanılması, Postgraduate, R.Özbaş(Student), 2019

Derun E., Farklı Bölgelerden Alman Dut ve Sumak Ürünlerinin Antioksidan Kapasitesinin İncelenmesi, Postgraduate, E.Irmak(Student), 2019

Derun E., Mangan Boratların Katı Hal Sentez Yöntemiyle Üretilmesi ve Karakterizasyonu, Postgraduate, M.Özyılmaz(Student), 2017

Derun E., Farklı Yöntemlerle Bakır Borat Üretimi ve Üretim Yöntemlerinin Karşılaştırılması, Postgraduate, S.Kavcı(Student), 2016

Derun E., Wound Dressing Production with Essential Oils and Investigation of Antimicrobial Properties, Postgraduate, G.Balkan(Student), 2016

Derun E., Çeşitli Yöntemler ile Türkiye Pazarında Bulunan Çayların İçerdiği Elementlerin Belirlenmesi, Postgraduate, T.Yalçın(Student), 2016

KIPÇAK A. S., DERUN E., Yeni Yöntemler ile Farklı Potasyum Kaynaklarından Yüksek Verimli Saf Potasyum Borat Üretimi ve Karakterizasyonu, Postgraduate, S.İla(Student), 2016

Derun E., Mikrodalga Çözümleme Yöntemi ile Hazırlanan Farklı Çay ve Kahve Numunelerinin Element İçeriklerinin ICP-OES Cihazı ile Belirlenmesi, Postgraduate, M.Melek(Student), 2016

Derun E., Katıhal Yöntemiyle Lantan Borat Üretimi ve Karakterizasyonu, Postgraduate, S.Sarı(Student), 2016

Derun E., Endüstriyel Atıkların Çimento Sanayinde Değerlendirilmesi, Postgraduate, F.Dur(Student), 2016

Derun E., Borik Asit Üretim Atığı Olan Borjipsin Yapı Sanayinde Değerlendirilmesi, Postgraduate, K.Kunt(Student), 2016

Derun E., Farklı Özellikteki Meyve Sularının Element İçeriklerinin ICP-OES Yöntemi Kullanılarak Belirlenmesi ve Sağlığa Olan Etkilerinin Araştırılması, Postgraduate, F.Demir(Student), 2015

Derun E., Yapay Borasit Sentezlenmesi ve Karakterizasyonu, Postgraduate, T.İbroşka(Student), 2014

Derun E., Çelikhane Cürufunun Yapı Malzemesi Olarak Kullanılması, Postgraduate, B.Soyal(Student), 2014

Derun E., Düşük Sıcaklıkta Magnezyum Borat Üretiminde Atık Magnezyumun Hammadde Olarak Değerlendirilmesi, Postgraduate, A.Kaplan(Student), 2014

Derun E., Bor, selenyum ve kurşun katkı yarıiletken alaşımların üretimi ve yapısal özelliklerinin karakterizasyonu, Postgraduate, T.Akgün(Student), 2013

Derun E., Sodyum Boratlardan Magnezyum Borat Üretiminin Araştırılması ve Üretim Parametrelerini Etkileyen

Faktörlerin Belirlenmesi, Postgraduate, M.Yıldırım(Student), 2013  
Derun E., Klor içerikli magnezyum boratların borik asit kullanılarak, katı-hal yöntemi ile üretilmesi ve karakterizasyonu, Postgraduate, E.Şakir(Student), 2013  
Derun E., Magnezyum Klorür ve Çeşitli Bor Kaynaklarından Hidrotermal ve Mikrodalga Yöntemi ile Magnezyum Borat Sentezi ve Karakterizasyonu, Postgraduate, P.Gürses(Student), 2013  
Derun E., Magnezyum Oksit ve Borik Asit Kaynaklarından Magnezyum Boratların Üretimi, Karakterizasyonu ve Üretimi Etkileyen Faktörlerin İncelenmesi, Postgraduate, F.Tuğçe(Student), 2012  
Derun E., Katkılı Yarı İletken Alaşımların Yapısal Analizlerinin Karakterizasyonu, Postgraduate, B.Tekin(Student), 2011  
Derun E., Bazı Önemli Bor Bileşiklerinin Termal Kinetiğinin İncelenmesi, Postgraduate, G.Arslan(Student), 2009  
DERUN E., Farklı cüruf atıklarının beton üretiminde kullanımı, Postgraduate, E.Eren(Student), 2009

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of PVA Matrix Hydrogel Loaded with Centaurea cyanus Extract for Wound Dressing Applications: Morphology, Drug Release, Antibacterial Efficiency, and In Vitro Evaluation**  
Abahuni Uçar M., Gül E. M., Uygunöz D., Derun E., Pişkin M. B.  
GELS, vol.1, pp.1-10, 2025 (SCI-Expanded)
- II. **Investigation of the Essential and Non-Essential Element Contents of Some Aromatic Coffees and Effect of Sugar Addition**  
Uygunöz D., Fercan M. M., Kıpçak A. S., Derun E.  
CURRENT ANALYTICAL CHEMISTRY, vol.1, pp.1-10, 2025 (SCI-Expanded)
- III. **Surfactant-assisted synthesis of anhydrous magnesium borates for Congo red photodegradation**  
GÜL E. M., Senberber Dumanli F. T., KIPÇAK A. S., DERUN E.  
Ceramics International, 2025 (SCI-Expanded)
- IV. **Utilization of borax production waste in zinc (Zn+2) adsorption from industrial wastewater**  
Senberber Dumanli F. T., Rona E. B., YILDIRIM ÖZEN M., DERUN E.  
Toxicological and Environmental Chemistry, vol.107, no.1, pp.43-56, 2025 (SCI-Expanded)
- V. **Determination of Drying Characteristics of Various Seafood by Freeze Drying Method and Investigation of the Effect of Ultrasonic Pretreatment**  
Özyalçın Genç Z. Ö., Gules E., Uygunöz D., Bozkurt F., Sağdıç O., Doymaz İ., Tuğrul N., Derun E., Kıpçak A. S.  
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.25, no.2, TRJAS6452, pp.1-10, 2025 (SCI-Expanded)
- VI. **Cobalt aluminates prepared by ultrasonic-assisted synthesis using different surfactants for Congo red photocatalytic degradation**  
GÜL E. M., Senberber Dumanli F. T., DERUN E.  
International Journal of Materials Research, 2025 (SCI-Expanded)
- VII. **Thermodynamics and non-isothermal kinetic modelling of CoAl<sub>2</sub>O<sub>4</sub> conversion from cobalt-aluminium complexes**  
Senberber Dumanli F. T., DERUN E.  
Physica B: Condensed Matter, vol.690, 2024 (SCI-Expanded)
- VIII. **The Ultrasonic-Assisted Synthesis of Copper Borates by Using Different Boron Sources**  
Şenberber Dumanli F. T., Kavcı Karaağaç S., Kıpçak A. S., Derun E.  
GLASS PHYSICS AND CHEMISTRY, vol.2024, pp.1-10, 2024 (SCI-Expanded)
- IX. **Ultrasonic-assisted Co-precipitation synthesis of CoAl<sub>2</sub>O<sub>4</sub> with different capping agents: Determination of electrical and optical features**  
AYDIN YÜKSEL S., GÜL E. M., Senberber Dumanli F. T., DERUN E.  
Materials Chemistry and Physics, vol.313, 2024 (SCI-Expanded)
- X. **Effects of Capping Agents on the Congo Red Adsorption of Ultrasonic-Assisted Synthesised Cobalt Aluminates**  
Dumanli F. T., GÜL E. M., Ozturk Z., Gurel S., DERUN E.

Water, Air, and Soil Pollution, vol.235, no.1, 2024 (SCI-Expanded)

- XI. **Enhanced interfacial and mechanical properties of carbon fabric/PA12 composites via grafting silanized nano hexagonal boron nitride onto the fibers**  
Ozbas R., Dogu M., DERUN E.  
Composite Interfaces, vol.31, no.8, pp.895-917, 2024 (SCI-Expanded)
- XII. **Synthesis of doped and non-doped TiO<sub>2</sub> in different temperatures and investigation on the effect of TiO<sub>2</sub> crystal structures and properties**  
Süzgün C., Karaduman E., Özarslan A. C., Derun E., Pişkin M. B.  
MAIN GROUP CHEMISTRY, vol.1, pp.1-22, 2024 (SCI-Expanded)
- XIII. **Effect of different boron sources on the copper borates in solid-state synthesis**  
Senberber Dumanli F. T., Kavci Karaagac S., Kıpçak A. S., Derun E.  
Zeitschrift für Kristallographie - Crystalline Materials, vol.238, no.9-10, pp.343-348, 2023 (SCI-Expanded)
- XIV. **Synthesis of cobalt aluminates by using the peel extracts of Citrus family species**  
Şenberber Dumanlı F. T., Gül E. M., Derun E.  
MAIN GROUP CHEMISTRY, vol.22, no.2, pp.177-185, 2023 (SCI-Expanded)
- XV. **Methylene Blue Adsorption by Chemically Foamed Geopolymer Based on Fly Ash**  
Özkan H., Tuğrul N., Derun E.  
WATER, AIR AND SOIL POLLUTION : AN INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION, vol.234, pp.1-11, 2023 (SCI-Expanded)
- XVI. **Co-Precipitation Synthesis of Lanthanum Borates with Different Morphologies**  
Argun S., Dumanli F. T., KIPÇAK A. S., TUĞRUL N., DERUN E.  
Glass Physics and Chemistry, vol.49, no.1, pp.92-97, 2023 (SCI-Expanded)
- XVII. **Characterization, thermal dehydration kinetic, and thermodynamic study of synthesized cesium borate (CsB<sub>5</sub>O<sub>8</sub> center dot 4H<sub>2</sub>O)**  
Dumanli F. T., KIPÇAK A. S., DERUN E.  
INORGANIC AND NANO-METAL CHEMISTRY, vol.53, no.3, pp.277-282, 2023 (SCI-Expanded)
- XVIII. **Hydrothermal synthesis of CoAl<sub>2</sub>O<sub>4</sub> spinel: effect of reaction conditions on the characteristic and morphological features**  
Dumanli F. T., DERUN E.  
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.113, no.12, pp.1062-1069, 2022 (SCI-Expanded)
- XIX. **Investigation of carbonate addition on risk element concentrations in various teas**  
Gorgulu T. Y., UYGUNÖZ D., KIPÇAK A. S., DERUN E.  
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, vol.59, no.9, pp.3540-3547, 2022 (SCI-Expanded)
- XX. **A comparative study of ultrasonic-assisted methods to synthesise spinel (CoAl<sub>2</sub>O<sub>4</sub>) nanoparticles**  
Dumanli F. T., DERUN E.  
CERAMICS INTERNATIONAL, vol.48, no.13, pp.19047-19055, 2022 (SCI-Expanded)
- XXI. **SUNFLOWER WASTE – MANGANESE IRON OXIDE COMPOSITE FOR HAZARDOUS DYE REMOVAL**  
Uygunöz D., Demir F., Yıldırım Özen M., Derun E.  
Chemical Data Collections, vol.1, pp.1-10, 2022 (SCI-Expanded)
- XXII. **Microwave Dehydration of Borax: Characterization, Dehydration Kinetics, and Modelling**  
Dumanli F. T. S., KIPÇAK A. S., DERUN E.  
GLASS PHYSICS AND CHEMISTRY, vol.48, no.3, pp.210-218, 2022 (SCI-Expanded)
- XXIII. **Ultra-fast and effective ultrasonic synthesis of potassium borate: Santite**  
İla S., Kıpçak A. S., Derun E.  
MAIN GROUP METAL CHEMISTRY, vol.45, no.1, pp.19-25, 2022 (SCI-Expanded)
- XXIV. **Characteristic, electrical and optical properties of potassium borate (KB<sub>5</sub>O<sub>8</sub> center dot 4H<sub>2</sub>O) hydrothermally synthesized from different boron sources**  
Dumanli F. T., Ozen M. Y., Asensio M. O., Yuksel S. A., KIPÇAK A. S., Derun E.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.47, no.12, pp.5353-5368, 2021 (SCI-Expanded)
- XXV. **Development and characterization of negative air ion emitting mica- and sericite-based antimicrobial pearlescent pigments**

- Aslan A., Karaduman E., Derun E., Pişkin M. B.  
CERAMICS INTERNATIONAL, vol.47, no.18, pp.26421-26429, 2021 (SCI-Expanded)
- XXVI. **Removal of zinc from wastewater using orange, pineapple and pomegranate peels**  
Turkmen Koc S. N., KIPÇAK A. S., Moroydor Derun E., TUĞRUL N.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.18, no.9, pp.2781-2792, 2021 (SCI-Expanded)
- XXVII. **DRYING CHARACTERISTICS OF BLUE MUSSELS BY TRADITIONAL METHODS**  
KIPÇAK A. S., Derun E. M., TUĞRUL N., DOYMAZ İ.  
CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY, vol.27, no.3, pp.279-288, 2021 (SCI-Expanded)
- XXVIII. **Determination of essential and non-essential element contents of drinking water and baby water for infant's nutrition**  
Demir F., Ozen M. Y., Derun E.  
MAIN GROUP METAL CHEMISTRY, vol.44, no.1, pp.194-202, 2021 (SCI-Expanded)
- XXIX. **Influence of lithium amount on vitreous enamel properties**  
Erayvaz A. M., Derun E. M.  
METALLURGICAL RESEARCH & TECHNOLOGY, vol.118, no.3, 2021 (SCI-Expanded)
- XXX. **A New Rapid Synthesis of Potassium Borates by Microwave Irradiation**  
İla S., Kıpçak A. S., Derun E.  
Main Group Chemistry, vol.19, no.4, pp.265-272, 2021 (SCI-Expanded)
- XXXI. **Determination of essential and non-essential element concentrations and health risk assessment of some commercial fruit juices in Turkey**  
Demir F., KIPÇAK A. S., Dere Ozdemir O., Moroydor Derun E.  
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, vol.57, no.12, pp.4432-4442, 2020 (SCI-Expanded)
- XXXII. **Alkalinity Effect on Characteristic Properties and Morphology of Magnesium Phosphate Hydrates**  
Senberber F. T., Moroydor Derun E.  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY, vol.65, no.9, pp.1326-1332, 2020 (SCI-Expanded)
- XXXIII. **Effects of microwaves on the dehydration characteristics of santite**  
Senberber F. T., DERUN E., KIPÇAK A. S.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.46, no.9, pp.4129-4139, 2020 (SCI-Expanded)
- XXXIV. **Thermal dehydration kinetics of non-crystalline manganese borate**  
TUĞRUL N., Firat E., KIPÇAK A. S., Yildirim M., Senberber F. T., Derun E.  
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- CXXV. **İleri Teknoloji Ürünü Olan Bor Karbür'ün Alternatif Metotlar İle Üretilmesi, Bir Derleme Çalışması**  
Aygün A., Gürses P., Kıpçak A. S., Derun E., Pişkin S.  
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1. Ulusal Kimya Mühendisliği Öğrenci Kongresi (UKMÖK-1), Çorum, Turkey, 12 - 14 May 2011, pp.1
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- CXLI. Pandermit ve Üleksit'in Nötron Zırh Malzemesi Olarak Değerlendirilmesi ve Kolemanit ile Kıyaslanması**

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- CXLIV. Betonda Pandermit'in Nükleer Soğurma Amaçlı Değerlendirilmesi**  
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- CLIII. Pelletization of Pyrite Ash Wastes by Using Calcium Hydroxide, Calcium Chloride and Bentonite for Iron Ore Production**  
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- CLX. **Evaluation of Pyrite Ash Wastes Obtained by the Sulfuric Acid Production Industry**  
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- CLXI. **Utilization of Boric Acid Wastes as an Additive in Lightweight Concrete**  
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8th International Conference on Environmental Science and Technology, Mitilini, Greece, 8 - 10 September 2003, pp.142-147
- CLXII. **Recycling Heavy Metals from the Leach of Pyrite Ash Wastes**  
Tuđrul N., Derun E., Pişkin M. B., Pişkin S.  
X. Balkan Mineral Processing Congress, Varna, Bulgaria, 15 - 20 June 2003, pp.271-274
- CLXIII. **Pelletization of Pyrite Ash Wastes for Utilization in Iron Production Industry**  
Tuđrul N., Derun E., Pişkin M. B., Pişkin S.  
X. Balkan Mineral Processing Congress, Varna, Bulgaria, 15 - 20 June 2003, pp.825-830
- CLXIV. **Evaluation of the Combustion Characteristics of Zonguldak Coals by Using TG-DTG-DTA**  
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- CLXV. **DTA-TG studies on the pyrolysis of Zonguldak coals**  
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- CLXIX. **Usage of Boron Concentration Wastes in Some Industries Such as Brick, Cement, etc.**

- Elbeyli I., Gülen J., Derun E., Pişkin S.  
Euro Environment 2000 Conference, Aalborg, Denmark, 18 - 20 October 2000, pp.1
- CLXX. **Endüstriyel Borik Asit Atıklarının Pomza Agregalı Hafif Beton Üretiminde Değerlendirilmesi ve Priz Süresine Etkisi**  
Derun E., Yalçınalp S., Akyol A., Pişkin S.  
14.Ulusal Kimya Kongresi, Diyarbakır, Turkey, 10 - 15 September 2000, pp.121
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Dördüncü Ulusal Kimya Mühendisliği Kongresi, İstanbul, Turkey, 4 - 07 September 2000, pp.915-918
- CLXXIII. **Talk Cevherinin Flotasyonla Zenginleştirilmesi ve Değerlendirilmesi**  
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4. Kimya Mühendisliği Kongresi, İstanbul Üniversitesi, İstanbul, Turkey, 4 - 07 September 2000, pp.213-216
- CLXXIV. **Endüstriyel Borik Asit Atıklarının Ham Perlit Agregalı Hafif Beton Üretiminde Değerlendirilmesi**  
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4. Kimya Mühendisliği Kongresi, İstanbul, Turkey, 4 - 07 September 2000, pp.95-98
- CLXXV. **Termal Analiz Yöntemiyle Talk Cevherinin Yapısal İncelenmesi**  
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4. Kimya Mühendisliği Kongresi, İstanbul, Turkey, 4 - 07 September 2000, pp.847-851
- CLXXVI. **İleri Teknoloji Ürünü Olan Bor Karbür'ün Alternatif Metotlar ile Üretilmesi, Bir Derleme Çalışması**  
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1. Ulusal Kimya Mühendisliği Öğrenci Kongresi (UKMÖK-1), Çorum, 12-14 Mayıs , (2011)

## Supported Projects

Şenberber Dumanlı F. T., Gül E. M., Derun E., Project Supported by Other Private Institutions, Kapayıcı Ajan Katkılı Magnezyum Boratların Endüstriyel Boyaların Atık Sulardan Arıtımında Değerlendirilmesi, 2022 - 2024

TUĞRUL N., DERUN E., Girgin B., Abahuni Uçar M., Project Supported by Higher Education Institutions, Ceviz Mango ve Portakal Kabuklarından Yüksek Dayanımlı ve Antibakteriyel Özellikli Yenilebilir Film Üretimi ve Kaplama Uygulamaları, 2022 - 2024

DERUN E., DOĞU M., Özbaş R., Project Supported by Higher Education Institutions, TERMOPLASTİK KOMPOZİTLERDE ARAYÜZEY ÖZELLİKLERİNİN NANOMALZEMELER KULLANIMIYLA GELİŞTİRİLMESİ, 2022 - 2024

DERUN E., Şengör İ., Project Supported by Higher Education Institutions, Boya Katkılı Polimer Film Sentezi ve Karakterizasyonu, 2022 - 2024

DERUN E., EREN N. M., KARADUMAN E., PİŞKİN M. B., ASLAN A., UYGUNÖZ D., GÜNAY AVCI S., Project Supported by Higher Education Institutions, Siyah Frenk Üzümü Ribes Nigrum Ekstraktı İçeren PLGA ve Kitosan Temelli Nanopartiküler İlaç Taşıyıcı Sistemlerin Geliştirilmesi ve Vulvovajinal Kandidiyazis Tedavisinde Kullanımı, 2021 - 2023

KIPÇAK A. S., ÖZYALÇIN Z. Ö., DOYMAZ İ., DERUN E., TUĞRUL N., UYGUNÖZ D., Project Supported by Higher Education Institutions, Çeşitli Deniz Ürünlerinin Yeni Nesil Dondurarak Kurutma Yöntemi ile Kurutma Karakteristiklerinin Belirlenmesi ve Ultrasonik Önışlemin Etkisinin İncelenmesi, 2021 - 2022

DERUN E., Aydoğan T., Project Supported by Higher Education Institutions, Gıda Atıklarından Demir Nanopartikül Sentezi, 2021 - 2022

DERUN E., UYGUNÖZ D., Project Supported by Higher Education Institutions, Ayçiçeği Atığı Mangan Demir Oksit Kompozitinin Boyar Madde Gideriminde Kullanılması, 2019 - 2022

TUĞRUL N., Argun S., KIPÇAK A. S., DERUN E., ŞENBERBER F. T., Project Supported by Higher Education Institutions, Farklı Morfolojilere Sahip Yüksek Teknoloji Ürünü Lantanborat Üretimi, 2019 - 2022

KIPÇAK A. S., TUĞRUL N., DERUN E., DOYMAZ İ., Sevim S., SÜNGÜ S., ASLANBEY S., Project Supported by Higher Education

Institutions, Mavi Midyenin Geneleksenel Yöntemler ile Kurutma Karakteristiklerinin İncelenmesi ve Yenilikçi Yöntemler ile Kıyaslanması, 2018 - 2020

DERUN E., DEMİR F., TUĞRUL N., KIPÇAK A. S., YILDIRIM M., Project Supported by Higher Education Institutions, Endüstriyel Atıklardan Alüminosilikat Yapılı Adsorbanların Üretimi ve Sulardan Ağır Metal Adsorpsiyonunda Kullanılması, 2017 - 2020

PİŞKİN M. B., Karaduman E., DERUN E., KIPÇAK A. S., Project Supported by Higher Education Institutions, KATKILI YARIİLETKEN ALAŞIMI ÜRETİMİ ve ÖZELLİKLERİNİN İYİLEŞTİRİLMESİ, 2017 - 2020

Derun E., Pişkin M. B., Development Agency, Turkey Ready Mixed Concrete Association of Concrete Research, Development and Technology Advisory Advisory Center, 2018 - 2019

DERUN E., Öğün B. S., Project Supported by Higher Education Institutions, Geopolimer Üretiminde Nanopartiküllerin Kullanımının İncelenmesi, 2018 - 2019

DERUN E., Irmak E., Project Supported by Higher Education Institutions, Farklı Bölgelerden Alınan Dut ve Sumak Ürünlerinin Antioksidan Kapasitesinin İncelenmesi, 2018 - 2019

DERUN E., Project Supported by Higher Education Institutions, Farklı Nanopartiküllerin ve Endüstriyel Atıkların Çimento Harcı Üretiminde Değerlendirilmesi, 2015 - 2019

Derun E., Yıldırım Özen M., Project Supported by Higher Education Institutions, Evaluation of different nanoparticles and industrial wastes in cement mortar production, 2015 - 2019

DERUN E., KIPÇAK A. S., TUĞRUL N., Project Supported by Higher Education Institutions, Çimento ve Beton Üretiminde Sanayi Atıklarının Değerlendirilmesi, 2014 - 2017

DERUN E., Project Supported by Higher Education Institutions, Esansiyel Yağlar ile Yara Örtüsü Üretimi ve Anti Bakteriyel Özelliklerinin İncelenmesi, 2016 - 2016

DERUN E., KIPÇAK A. S., TUĞRUL N., Project Supported by Higher Education Institutions, Türkiye'de Bulunan Çeşitli Çay ve Kahvelerin, Kafein ve Element İçeriklerinin Farklı Yöntemler ile Belirlenmesi ve İnsan Sağlığına olan Etkilerinin Araştırılması, 2013 - 2016

DERUN E., Project Supported by Higher Education Institutions, Farklı Özellikteki Meyve Sularının Element İçeriklerinin ICP-OES Yöntemi Kullanılarak Belirlenmesi ve Sağlığa Olan Etkilerinin Araştırılması, 2015 - 2015

DERUN E., Project Supported by Higher Education Institutions, Farklı Yöntemlerle Medikal Bitkilerdeki Yağ İçeriklerinin Belirlenmesi Ve Özelliklerinin İncelenmesi, 2011 - 2015

DERUN E., Project Supported by Higher Education Institutions, Yapay Borasit Sentezlenmesi ve Karakterizasyonu, 2013 - 2014

DERUN E., KIPÇAK A. S., SARI YILMAZ M., TUĞRUL N., Project Supported by Higher Education Institutions, Farklı Magnezyum Ve Bor Kaynaklarından Magnezyum Boratların Üretimi Ve Üretim Parametrelerinin İncelenmesi, 2012 - 2013

DERUN E., Project Supported by Higher Education Institutions, Magnezyum Oksit Ve Borik Asit Kaynaklarından Magnezyum Boratların Üretimi, Karakterizasyonu Ve Üretimi Etkileyen Faktörlerin İncelenmesi, 2012 - 2012

DERUN E., KIPÇAK A. S., TUĞRUL N., Project Supported by Higher Education Institutions, Bor Katkılı Yarı İletken Alaşımlar Kullanılarak Nanokompozit Ve Nanokristal Malzemelerin Üretimi, 2009 - 2012

Derun E., Dere Dere Özdemir Ö., Tuğrul N., Pişkin S., Project Supported by Other Official Institutions, Çeşitli Bileşiklerden Hidrojen Üretimi ve Yakıt Pili Geliştirilmesi (Havuz Proje) ve Türk Bor Bileşiklerinden Sodyumtetraborat Üretimi, 2003 - 2010

Derun E., Pişkin M. B., Tuğrul N., Pişkin S., Project Supported by Other Official Institutions, Termoelektrik Soğutucularda Kullanılmak Üzere p-tipi Bi<sub>2</sub>Te<sub>3</sub>-Sb<sub>2</sub>Te<sub>3</sub>, n-tipi Bi<sub>2</sub>Te<sub>3</sub>-Bi<sub>2</sub>Se<sub>3</sub> Yarı İletken Metal Alaşımlarının Üretimi ve Özelliklerinin İncelenmesi, 2003 - 2006

Derun E., Pişkin S., Tuğrul N., Yakar Elbeyli İ., Project Supported by Higher Education Institutions, Mikroorganizma Etkisiyle Linyitlerin Depolimerizasyonu, Sıvı Yakıt Eldesi, Oluşan Ürünlerin Yeni Kimyasal Maddeler Olarak Değerlendirilmesi, Proje No: 23-07-01-01, 2003 - 2005

Derun E., Marşoğlu M., Pişkin S., Tuğrul N., Project Supported by Higher Education Institutions, Bandırma Etibank Sülfürik Asit Fabrikasından Çıkan Kalsine Pirit Külünün Yüksek Fırın Hammaddesi Olarak Değerlendirilmesi ve Pik Demir Üretiminde Kullanılması, 2000 - 2005

Marşoğlu M., Pişkin M. B., Pişkin S., Derun E., Yakar Elbeyli İ., Project Supported by Other Official Institutions, Etibank Bor İşletmelerinden Atılan Katı Ve Sıvı Bor İçeren Atıklardan, Borun Geri Kazanım Sonrası Tuğla Ve Diğer Sanayilerde

Kullanımı, 1998 - 2001

## **Memberships / Tasks in Scientific Organizations**

Kimya Mühendisleri Odası, Member, 1998 - Continues

## **Peer Reviews in Scientific Publications**

Sigma Journal of Engineering and Natural Sciences, Other Indexed Journal, January 2016

Sigma Mühendislik ve Fen Bilimleri Dergisi, National Scientific Refreed Journal, June 2014

International Journal of Mineral Processing, SCI Journal, March 2010

## **Scientific Consultations**

Yıldız Teknik Üniversitesi – Teknopark, Project Consultancy, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, Turkey, 2016 - 2016

## **Mobility Activity**

Other Exchange Programme, Get Education, Universitaet Siegen, Germany, 1997 - 1997

## **Metrics**

Publication: 344

Citation (WoS): 750

Citation (Scopus): 570

H-Index (WoS): 17

H-Index (Scopus): 17

## **Congress and Symposium Activities**

ICMMP 2013 : International Conference on Materials and Materials Processing, Attendee, Praha, Czech Republic, 2013

ICCE 2012: International Conference on Chemical Engineering, Attendee, Paris, France, 2012

2011 International Conference on Chemistry and Chemical Process (ICCCP 2011), Attendee, Krung Thep, Thailand, 2011

World Congress on Engineering (WCE 2010), Attendee, London, United Kingdom, 2010

6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, Attendee, Antalya, Turkey, 2010

1st Conference on Chemical Engineering and Advanced Materials, Attendee, Napoli, Italy, 2009

3rd Balkan Mining Congress, Attendee, İzmir, Turkey, 2009

Hazır Beton Kongresi, Attendee, İstanbul, Turkey, 2008

Euro Environment 2000 Conference, Attendee, Aalborg, Denmark, 2000

14.Ulusal Kimya Kongresi, Attendee, Diyarbakır, Turkey, 2000

4.Ulusal Kimya Mühendisliği Kongresi, Attendee, İstanbul, Turkey, 2000

## **Awards**



DERUN E., SCI-Expanded kapsamında dergilerde 2013-2014 döneminde en fazla yayın yapan Yardımcı Doçentler arasında 1. sırada yer almak, Yıldız Teknik Üniversitesi, October 2015

DERUN E., SCI-Expanded kapsamında dergilerde 2012-2013 döneminde yayın yapan öğretim üyeleri arasında yer almak, Yıldız Teknik Üniversitesi, October 2014

DERUN E., SCI-Expanded kapsamında dergilerde 2012-2013 döneminde en fazla yayın yapan Yardımcı Doçentler arasında 2. sırada yer almak, Yıldız Teknik Üniversitesi, October 2014

DERUN E., SCI-Expanded kapsamında dergilerde 2011-2012 döneminde yayın yapan öğretim üyeleri arasında yer almak, Yıldız Teknik Üniversitesi, October 2013

DERUN E., SCI-Expanded kapsamında dergilerde 2009-2010 döneminde yayın yapan öğretim üyeleri arasında yer almak, Yıldız Teknik Üniversitesi, October 2011

DERUN E., 6. SCI-Expanded kapsamında dergilerde 2007-2009 döneminde yayın yapan öğretim üyeleri arasında yer almak, Yıldız Teknik Üniversitesi, October 2010

DERUN E., SCI-Expanded kapsamında dergilerde 2006-2007 döneminde yayın yapan öğretim üyeleri arasında yer almak, Yıldız Teknik Üniversitesi, October 2008

DERUN E., SCI-Expanded kapsamında dergilerde 2005 yılında yayın yapan öğretim üyeleri arasında yer almak, Yıldız Teknik Üniversitesi, October 2006

DERUN E., SCI-Expanded kapsamında dergilerde 2004 yılında en fazla yayın yapan araştırma görevlileri arasında 3. sırada yer almak, Yıldız Teknik Üniversitesi, October 2005