

Prof. TİJEN ENNİL BEKTAŞ

Personal Information

Office Phone: [+90 286 218 0018](tel:+902862180018) Extension: 1442

Email: ennilbektas@comu.edu.tr

International Researcher IDs

ScholarID: dKI00RcAAAAJ

ORCID: 0000-0001-9180-3623

ScopusID: 55900514600

Yoksis Researcher ID: 171791

Education Information

Postgraduate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, Turkey 1997 - 2000

Undergraduate, Eskisehir Osmangazi University, Mühendislik Mimarlık Fakültesi, Kimya Mühendisliği, Turkey 1993 - 1997

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, İyon Değişimi Yöntemi ile Sulu Çözeltiden Bor Giderimi Üzerine Etki Eden Parametrelerin İncelenmesi, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği, 2005

Postgraduate, Boyarmadde ve Bazı Anyonların Gideriminde Sepiolit ve Diğer Adsorbanların Etkinliğinin Araştırılması, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Bölümü, 2000

Research Areas

Chemical Engineering and Technology, Engineering and Technology

Academic Titles / Tasks

Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2020 - Continues

Associate Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Kimya Müh.Bölümü, 2014 - 2017

Assistant Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Kimya Müh.Bölümü, 2008 - 2014

Research Assistant, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Kimya Müh.Bölümü, 1997 - 2008

Academic and Administrative Experience

Fakülte Kurulu Üyesi, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2021 - Continues

Head of Department, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2021 - Continues
Member of the Senate, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2021 - 2022
Fakülte Yönetim Kurulu Üyesi, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Kimya Mühendisliği, 2021 - 2022

Courses

Ekserji Analizi, Postgraduate, 2022 - 2023
Temel İşlemler, Undergraduate, 2021 - 2022
Kütle ve Enerji Denklikleri, Undergraduate, 2021 - 2022
Kütle Transferi, Undergraduate, 2020 - 2021
Kimya Mühendisliğinde İleri Matematiksel Modelleme, Undergraduate, 2020 - 2021
İleri Atıksu Arıtımı, Postgraduate, 2021 - 2022
Isı Transferi, Undergraduate, 2020 - 2021
Atıksu Arıtım Teknolojileri, Undergraduate, 2021 - 2022
Kimya Mühendisliğine Giriş, Undergraduate, 2021 - 2022
Akışkanlar Mekaniği, Undergraduate, 2018 - 2019

Advising Theses

Ennil Bektaş T., Tıbbi ve Aromatik Bitkilerin Bileşenlerinin Farklı Ekstraksiyon Yöntemleri İle Belirlenmesi , Postgraduate, T.BAŞARAN(Student), Continues
Ennil Bektaş T., Gemi Kaynaklı Atık Suların Hibrit Yöntemler İle Arıtlabilirliğinin Araştırılması, Postgraduate, B.Tabak(Student), Continues
Ennil Bektaş T., Şanlıyüksel Yücel D., Mikrodalga Isınım ve Adsorpsiyon Yöntemleri ile Tuzla Jeotermal Kaynaklarından Bor Giderim Performanslarının İncelenmesi, Postgraduate, M.OĞUZHAN(Student), 2021
Selengil U., Ennil Bektaş T., Membran distilasyon (md) ayırma yöntemini kullanarak bor içeren sulu çözeltilerden bor giderimi ve geri kazanımının araştırılması, Postgraduate, B.TAN(Student), 2018
Ennil Bektaş T., Demir-çelik endüstrisinde kullanılan karbon bağlı alümina-zirkon-silikat (AZS) sürgü plakalarının geliştirilmesi, Postgraduate, M.METESÖY(Student), 2016
Ennil Bektaş T., İyon değişimi yöntemi ile sulu çözeltiden ve atıksudan sülfat gideriminin incelenmesi, Postgraduate, F.EREN(Student), 2013
Ennil Bektaş T., Bir tekstil atık suyunun koagülasyon-flokülasyon-membran filtrasyon süreçleri ile arıtlabilirliğinin incelenmesi, Postgraduate, N.BİROĞUL(Student), 2012
Ennil Bektaş T., Adsorpsiyon ve iyon değişimi yöntemi ile sulu çözeltilerden fosfat gideriminin incelenmesi, Postgraduate, B.KIVANÇ(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Reduction dye in paint and construction chemicals wastewater by using microwave radiation method,**
Ennil Bektaş T., Angin D.
Fresenius Environmental Bulletin, vol.30, pp.4004-4008, 2021 (SCI-Expanded)
- II. **PRODUCTION AND CHARACTERIZATION OF ACTIVATED CARBON PREPARED FROM ORANGE PULP AND UTILIZATION FOR THE REMOVAL OF PHOSPHATE IONS**
Bektas T. E., ANGİN D., Gunes S.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.12, pp.7973-7982, 2018 (SCI-Expanded)
- III. **Reduction dye in paint and construction chemicals wastewater by improved coagulation-flocculation**

process

Bektas T.

WATER SCIENCE AND TECHNOLOGY, vol.76, no.10, pp.2816-2820, 2017 (SCI-Expanded)

- IV. **Influence of process parameters on the surface and chemical properties of activated carbon obtained from biochar by chemical activation**
Angın D., Altıntaş E., Köse T. E.
BIORESOURCE TECHNOLOGY, vol.148, pp.542-549, 2013 (SCI-Expanded)
- V. **Production and characterization of activated carbon prepared from safflower seed cake biochar and its ability to absorb reactive dyestuff**
ANGIN D., KÖSE T. E., SELENGİL U.
Applied Surface Science, vol.280, pp.705-710, 2013 (SCI-Expanded)
- VI. **Adsorption of phosphate from aqueous solutions using calcined waste eggshell**
KÖSE T. E., Kivanç B.
Chemical Engineering Journal, vol.178, pp.34-39, 2011 (SCI-Expanded)
- VII. **Adsorption of boron from aqueous solutions using activated carbon prepared from olive bagasse**
KÖSE T. E., DEMİRAL H., ÖZTÜRK N.
Desalination and Water Treatment, vol.29, pp.110-118, 2011 (SCI-Expanded)
- VIII. **Boron removal from aqueous solutions by ion exchange resin Batch studies**
Öztürk N., Köse T. E.
DESALINATION, vol.227, pp.233-240, 2008 (SCI-Expanded)
- IX. **Boron removal from aqueous solutions by ion exchange resin column sorption elution studies**
KÖSE T. E., ÖZTÜRK N.
Journal of Hazardous Materials, vol.152, pp.744-749, 2008 (SCI-Expanded)
- X. **Boron removal from aqueous solution by reverse osmosis**
ÖZTÜRK N., KAVAK D., KÖSE T. E.
Desalination, vol.223, pp.1-9, 2008 (SCI-Expanded)
- XI. **Agricultural residue anion exchanger for removal of dyestuff from wastewater using full factorial design**
KÖSE T. E.
Desalination, vol.222, pp.323-330, 2008 (SCI-Expanded)
- XII. **A kinetic study of nitrite adsorption onto sepiolite and powdered activated carbon**
ÖZTÜRK N., KÖSE T. E.
Desalination, vol.223, pp.174-179, 2008 (SCI-Expanded)
- XIII. **Batch adsorption of dyestuff from aqueous solutions onto various adsorbents**
ÖZTÜRK N., Bektaş T. E.
Fresenius Environmental Bulletin, vol.15, pp.489-496, 2006 (SCI-Expanded)
- XIV. **Nitrate removal from aqueous solution by adsorption onto various materials**
Ozturk N., Bektas T.
JOURNAL OF HAZARDOUS MATERIALS, vol.112, no.1-2, pp.155-162, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Boron removal from wastewater by direct contact membrane distillation system using two-level factorial design**
Tan B., Yıldız S., Angın D., ENNİL BEKTAŞ T., SELENGİL U.
Journal of Applied Water Engineering and Research, vol.12, no.1, pp.39-49, 2024 (Scopus)
- II. **DYESTUFF REMOVAL FROM SYNTHETIC TEXTILE WASTEWATER USING OLIVE LEAF AS ADSORBENT MATERIAL**
Özkul B., Ocak N., Tan B., Ennil Bektaş T.
Bartın University International Journal of Natural and Applied Sciences, vol.6, no.2, pp.145-156, 2023 (Peer-

Reviewed Journal)

- III. **Phosphate removal by Ion exchange in batch mode**
ENNİL BEKTAŞ T., Ugurluoglu B. K., Tan B.
WATER PRACTICE AND TECHNOLOGY, vol.16, no.4, pp.1343-1354, 2021 (ESCI)
- IV. **Boron Rejection from Aqueous Solution and Wastewater by Direct Contact Membrane Distillation, Environmental Research and Technology,**
Tan B., Selengil U., Ennil Bektaş T.
Environmental Research and Technology , vol.4, no.1, pp.73-82, 2021 (Peer-Reviewed Journal)
- V. **Effectiveness of Fly Ash in Boron Removal from Tuzla (Çanakkale) Geothermal Fluid**
Şahin O. M., E. Bektaş T., Şanlıyüksel Yücel D.
Environmental Research and Technology , vol.4, no.1, pp.102-107, 2021 (Peer-Reviewed Journal)
- VI. **Investigation of the Usability of perlite waste for dyestuff removal from aqueous solution**
Selengil U., Ennil Bektaş T.
Sakarya University Journal of Science, vol.24, no.1, pp.224-230, 2020 (Peer-Reviewed Journal)
- VII. **Removal of organic matter from dairy industry wastewater using microwave radiation**
Ennil Bektaş T., Göl S. C., Çoker F., Öztel H.
Eskişehir Osmangazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.28, no.1, pp.16-20, 2020 (Peer-Reviewed Journal)
- VIII. **Batch and Column Studies for Removal of Sulphate from Real Wastewater Using Ion Exchange Resin**
BEKTAŞ T. E., Eren F.
Sakarya University Journal of Science, pp.810-816, 2019 (Peer-Reviewed Journal)
- IX. **Utilization of activated carbon prepared from pumpkin seed shell for the removal of dyestuff from aqueous solutions and wastewater by microwave**
DEMİRAL İ., BEKTAŞ T. E., AYDIN ŞAMDAN C.
International journal of scientific and technological research, vol.5, no.2, pp.68-77, 2019 (Peer-Reviewed Journal)
- X. **Real textile reclamation using a combined coagulation/flocculation/membrane filtration system and the evaluation of several natural materials as flocculant aids**
Ennil Bektaş T., Biroğul Çalışkan N.
Gazi University Journal of Science, vol.29, no.3, pp.565-572, 2016 (Scopus)
- XI. **Kalsine Midye Kabuğunu Kullanarak Sulu Çözeltilerden Fosfat Gideriminin İncelenmesi**
KÖSE T., GÖL S. C.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, 2016 (Peer-Reviewed Journal)
- XII. **Real Textile Wastewater Reclamation using a Combined Coagulation/ Flocculation/ Membrane Filtration System and the Evaluation of Several Natural Materials as Flocculant Aids**
Kose T., Caliskan Birogul N.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.29, no.3, pp.565-572, 2016 (ESCI)

Books & Book Chapters

- I. **Mikroalg İşınlam Yönteminin Su Kirliliği Üzerine Uygulamaları,**
Ennil Bektaş T.
in: Mühendislik Bilimlerinde Akademik Çalışmalar, Ali Kılıçer, Tuncay Yılmaz, Editor, IVPE, Ankara, pp.101-109, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **TEKSTİL ATIK SUYUNDAN ZEYTİN ÇEKİRDEĞİ İLE BOYAR MADDE GİDERİMİ**
Ennil Bektaş T., Ocak N., Özkul B.
15.Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023, pp.1204-1207
- II. **Borulu Isı Değiştiricisinde Soğutucu Olarak Kullanılacak CuO Nanoakışkanın Üretimi ve**

Karakterizasyonu

Akarken G., CENGİZ U., BEKTAŞ T. E.

15. Ulusal Kimya Mühendisliği Kongresi, Çanakkale, Turkey, 4 - 07 September 2023

III. TIBBİ VE AROMATİK BİR BİTKİNİN (SİNİR OTU) EKSTRAKSİYON YÖNTEMİ İLE TOPLAM FENOL İÇERİĞİNİN BELİRLENMESİ

Başaran T., Ennil Bektaş T.

15. Ulusal Kimya Mühendisliği Kongresi,, Çanakkale, Turkey, 4 - 07 September 2023, pp.1223-1226

IV. Effectiveness of Fly Ash in Boron Removal from Tuzla (Çanakkale) Geothermal Fluid

Şahin M., Ennil Bektaş T., Şanlıyüksel Yücel D.

5th Eurasia Waste Management Symposium, 26 - 27 October 2020, pp.216-223

V. Bor Tesisi Atıksuyundan Çöktürme Yöntemi ile Bor Gideriminin İncelenmesi

TAN B., SELENGİL U., BEKTAŞ T. E.

7th International Symposium on Academic Studies in Science, Engineering and Architecture Sciences, Ankara, Turkey, 15 - 17 November 2019, pp.428-435

VI. Utilization of Activated Carbon Prepared from Olive-Waste Cake for the Removal of Dye from Industrial Wastewater by Microwave Radiation

ANGIN D., BEKTAŞ T. E.

7th International Conference on Advanced Technologies (ICAT'xx18), Antalya, Turkey, 28 April - 01 May 2018

VII. Boyarmadde İçeren Atıksuların Katalitik ve Oksidant Etkili Mikrodalga Işınım Yöntemi ile Arıtilabilirliğinin İncelenmesi

BEKTAŞ T. E., GÖL S., ÇOKER F., ÖZTEL H., KARA E.

International Eurasian Conference on Biological and Chemical Science, 26 - 27 April 2018

VIII. Organik Madde İçeren Atıksuların Katalitik ve Oksidant Etkili Mikrodalga Işınım Yöntemi ile Arıtilabilirliğinin İncelenmesi

BEKTAŞ T. E., göl s., ÇOKER F., ÖZTEL H.

International Eurasian Conference on Biological and Chemical Science, 26 - 27 April 2018

IX. Utilization of Activated Carbon Prepared From Pumpkin Seed Shell For The Removal of Dyestuff From Aqueous Solutions and Wastewater by Microwave Radiation

DEMİRAL İ., BEKTAŞ T. E., AYDIN ŞAMDAN C.

IWA2nd Regional Symposium on Water, Wastewater and Environment, 22 - 24 March 2017

X. Utilization of activated carbon prepared from orange pulp for the removal of dyestuff from wastewater by microwave radiation

BEKTAŞ T. E., ANGİN D.

9. International Conference on Sustainable Energy and Environmental Protection (SEEP2016), 22 - 25 October 2016

XI. Removal of dyestuff from wastewater by microwave radiation with catalysts and oxidant

BEKTAŞ T. E.

9. International Conference on Sustainable Energy and Environmental Protection (SEEP2016), 22 - 25 October 2016

XII. Study on the sorption-desorption-recovery performance of ion Exchange resin for removing phosphate from aqueous solutions,

ENNİL BEKTAŞ T.

International Conference On Civil and Environmental Engineering (ICOCEE), Nevşehir, Turkey, 20 - 23 May 2015, pp.45

XIII. Study on the sorption desorption recovery performance of ion exchange resin for removing phosphate from aqueous solutions

KÖSE T. E., BETÜL K.

International Conference On Civil And Environmental Engineering (ICOCEE), 20 - 23 May 2015

XIV. Adsorption of dyestuff from wastewater using calcined waste eggshell

KÖSE T. E., BETÜL K.

International Conference On Civil And Environmental Engineering (ICOCEE), 20 - 23 May 2015

- XV. **Real textile wastewater reclamation in a combined coagulation flocculation membrane filtration and evaluation of several natural materials as flocculant aids**
KÖSE T. E., nilüfer b.
2nd International Conference on Recycling and Reuse, 8 - 10 June 2014
- XVI. **Removal of Boron From Aqueous Solution by Direct Contact Membrane Distillation**
KÖSE T. E., SELENGİL U., TAN B.
2nd International Conference on Recycling and Reuse, 4 - 06 June 2014
- XVII. **Adsorption of reactive dyestuff from aqueous solutions using activated carbon prepared from safflower seed cake biocharS**
ANGIN D., KÖSE T. E., SELENGİL U.
1st EWaS-MED International Conference, 14 - 16 April 2013
- XVIII. **Phosphate removal from aqueous solution by Lewatit Monoplus M600**
KÖSE T. E.
IWA Regional Conference and Exhibition on Membrane Technology and Water Reuse, 7 - 09 November 2010
- XIX. **Phosphate removal from aqueous solutions using waste eggshell**
KÖSE T. E., BETÜL K.
6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, 21 - 23 March 2010
- XX. **Adsorption of boron from aqueous solutions using activated carbon prepared from agricultural residue**
KÖSE T. E., DEMİRAL H., ÖZTÜRK N.
4th International Boron Symposium, 22 - 24 November 2009
- XXI. **Investigation of boron removal from boron products plant wastewater by sedimentation with the use of 22 full factorial experimental design method**
KÖSE T. E., ÖZTÜRK N.
3rd International Boron Symposium, 2 - 04 November 2006
- XXII. **Boron removal from aqueous solution by ion exchange using experimental design**
ÖZTÜRK N., KÖSE T. E.
International Workshop on Frontiers and Interfaces of Ion Exchange, 18 - 20 June 2006
- XXIII. **Kinetic modelling and column study of boron removal from aqueous solution by ion Exchange**
ÖZTÜRK N., KÖSE T. E.
7th World Congress of Chemical Engineering, 11 - 13 July 2005
- XXIV. **Boron Removal from Aqueous Solution by Ion Exchange Resin Column Sorption Elution Studies**
KÖSE T. E., ÖZTÜRK N.
2nd International Boron Symposium, 19 - 22 September 2004
- XXV. **Boron Removal from Aqueous Solution by Ion Exchange Resin**
KÖSE T. E., ÖZTÜRK N.
2nd International Boron Symposium, 19 - 22 September 2004

Supported Projects

Ennil Bektaş T., Uğur Nigiz F., TUBITAK Project, Pervaporatif Desalinasyon İçin Polilaktik Asit Temelli Karma Matrisli Membranların Üretimi ve Deniz Suyu Saflaştırılmasında Kullanımı, 2021 - 2022

ORHUN G. E., ENNİL BEKTAŞ T., Yılmaz D., Project Supported by Higher Education Institutions, Gıda Olarak Kullanılan Tohum Filizlerinin Yetisttirilmesinde Bor Giderilmiş Jeotermal Kaynak Kullanımı, 2020 - 2022

ENNİL BEKTAŞ T., ŞANLIYÜKSEL YÜCEL D., Şahin M. O., Project Supported by Higher Education Institutions, Mikrodalga Işınım ve Adsorpsiyon Yöntemleri ile Tuzla Jeotermal Kaynaklarından Bor Giderim Performanslarının İncelenmesi, 2019 - 2021

Ennil Bektaş T., Selengil U., Project Supported by Higher Education Institutions, Membran Distilasyon Kristalizasyon MDC Ayırma Yöntemini Kullanarak Bor İçeren Sulu Çözeltilerden ve Atıksudan Bor Giderimi ve Geri Kazanımının Araştırılması,

2011 - 2015

Ennil Bektaş T., Öztürk N., Project Supported by Higher Education Institutions, İleri arıtım yöntemleriyle bor gideriminin incelenmesi, 2003 - 2006

Ennil Bektaş T., Öztürk N., Project Supported by Higher Education Institutions, Sulardan adsorpsiyonla bor giderimi ve bor türevleri tesisleri katı atıklarının değerlendirilmesi, 2000 - 2001

Metrics

Publication: 52

Citation (WoS): 802

Citation (Scopus): 983

H-Index (WoS): 9

H-Index (Scopus): 11