

Assoc. Prof. Zehra Şapcı Ayas

Personal Information

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Education Information

Post Doctorate, Dept. Of Mathematical Sciences And Technology, Dept. Of Mathematical Sciences And Technology, Norway 2009 - 2012

Doctorate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, Turkey 2002 - 2008

Post Graduate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, Turkey 1999 - 2002

Under Graduate, Trakya University, Fen Edebiyat, Biyoloji, Turkey 1994 - 1999

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Other, Management Committee and WGs meeting, COST Meeting, 2016

Education Management and Planning, Biological Treatment According to the C-TECH technology, CYCLIC ACTIVATED SLUDGE TECHNOLOGY, 2016

Education Management and Planning, Türkiye'de Çevre Yönetimi için Kurumsal Kapasitenin Geliştirilmesi Projesi, Sürdürülebilir Şehirler Konferansı, REC Türkiye, 2016

Education Management and Planning, Su ve atıksu yönetimi eğitimi, TBB, 2016

Education Management and Planning, Türkiye'deki İçme Suyu Kaynaklarının ve Arıtma Tesislerinin Değerlendirilmesi, DSİ, 2016

Dissertations

Doctorate, SUCUL ORTAMLARDA DOĞAL GİDERİM YÖNTEMLERİ İLE METALLERDEKİ DEĞİŞİKLİĞİN ARAŞTIRILMASI, Yildiz Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, 2008

Post Graduate, TEKSTİL ATIKSULARININ ANAEROBİK ARITILABİLİRLİĞİNİN İNCELENMESİ, Yildiz Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, 2002

Research Areas

Environmental Engineering, Environmental Sciences, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, Norges Landbrukshoegskole; Nlh (Agricultural University Of Norway), Department Of Mathematical Sciences And Technology, Dept. Of Mathematical Sciences And Technology, 2009 - 2012
Research Assistant, Yildiz Technical University, Mühendislik Fakültesi, Çevre Mühendisliği, 1999 - 2008

Professional Experience

Head of Department, Van Yüzüncü Yil University, Çevre Mühendisliği, 2018 - Continues

Head of Department, Van Yüzüncü Yil University, Mühendislik, Çevre Mühendisliği, 2016 - Continues

Advising Theses

Şapcı Ayas Z., Yozgat İli'nde Bulunan Kentsel-Endüstriyel Atıksu Aritma Tesisleri Ve Yapay Sulak Alanların Durumlarının İncelenmesi, Yaşanan Problemlerin Tespiti Ve Çözüm Önerileri, Post Graduate, a.fidan(Student), 2020

Şapcı Ayas Z., Mezhiba atıksularının elektrooksidasyon prosesi ile kesikli ve sürekli sistemde arıtımının incelenmesi, Doctorate, d.öztürk(Student), 2018

Şapcı Ayas Z., Şapcı Ayas Z., Improving the anaerobic digestion of lignocelluloses and organic wastes: effects of steam explosion, co-digestion and digestate recirculation, Doctorate, M.Magdalena(Student), 2013

Jury Memberships

Post Graduate, Tez Savunma Jürisi,, Van Yüzüncü Yıl, December, 2020

Post Graduate, Tez Savunma Jürisi, Bitlis Eren Üniversitesi, December, 2019

Post Graduate, Tez Savunma Jürisi,, Bitlis Eren Üniversitesi, December, 2019

Post Graduate, Tez Savunma Jürisi,, Bitlis Eren Üniversitesi, December, 2019

Post Graduate, Tez Savunma Jürisi,, van yüzüncü yıl üniversitesi, December, 2019

Post Graduate, Tez Savunma Jürisi,, Bitlis Eren Üniversitesi, September, 2019

Post Graduate, Tez Savunma Jürisi,, van yüzüncü yıl, August, 2019

Doctorate, Tez Savunma Jürisi,, Atatürk Üniveristesi, May, 2019

Appointment Academic Staff, Araştırma Görevlisi Sınavı, Muş Alparslan Üniv. Müh. Mim. fak., November, 2017

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

- I. **Heavy Metal Uptakes by Myriophyllum verticillatum from Two Environmental Matrices: The Water and the Sediment**
Sapci Z., Ustun E. B.
International Journal of Phytoremediation, vol.17, no.3, pp.290-297, 2015 (Journal Indexed in SCI)
- II. **Incorporation of fish by-product into the semi-continuous anaerobic co-digestion of pre-treated lignocellulose and cow manure, with recovery of digestate's nutrients**
ESTEVEZ M. M. , Sapci Z., LINJORDET R., MORKEN J.
RENEWABLE ENERGY, vol.66, pp.550-558, 2014 (Journal Indexed in SCI)
- III. **Semi-continuous anaerobic co-digestion of cow manure and steam-exploded Salix with recirculation of liquid digestate**
ESTEVEZ M. M. , Sapci Z., LINJORDET R., SCHNURER A., MORKEN J.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.136, pp.9-15, 2014 (Journal Indexed in SCI)
- IV. **The effect of algae species on biodiesel and biogas production observed by using a data model combines algae cultivation with an anaerobic digestion (ACAD) and a biodiesel process**
Sapci Z., MORKEN J.
ENERGY CONVERSION AND MANAGEMENT, vol.79, pp.519-524, 2014 (Journal Indexed in SCI)

- V. **Modeling of biodiesel production in algae cultivation with anaerobic digestion (ACAD)**
MORKEN J., Sapci Z., STROMME J. E. T.
ENERGY POLICY, vol.60, pp.98-105, 2013 (Journal Indexed in SCI)
- VI. **An Investigation of the Enhancement of Biogas Yields from Lignocellulosic Material using Two Pretreatment Methods: Microwave Irradiation and Steam Explosion**
Sapci Z., MORKEN J., LINJORDET R.
BIORESOURCES, vol.8, no.2, pp.1976-1985, 2013 (Journal Indexed in SCI)
- VII. **The effect of microwave pretreatment on biogas production from agricultural straws**
Sapci Z.
BIORESOURCETECHNOLOGY, vol.128, pp.487-494, 2013 (Journal Indexed in SCI)
- VIII. **Interactions between contaminated aquatic environments and element uptake by Echinodorus amazinocus and Cryptocoryne undulata**
Sapci Z., Ustun E. B.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.76, pp.114-125, 2012 (Journal Indexed in SCI)
- IX. **Recovery of ammonium nitrogen from the effluent of UASB treating poultry manure wastewater by MAP precipitation as a slow release fertilizer**
YETİLMEZSOY K., Sapci-Zengin Z.
JOURNAL OF HAZARDOUS MATERIALS, vol.166, no.1, pp.260-269, 2009 (Journal Indexed in SCI)
- X. **Ameliorative effect of different doses of MgNH₄PO₄ center dot 6H(2)O precipitate recovered from the effluent of UASB treating poultry manure wastewater: Growth of Lolium perenne**
YETİLMEZSOY K., Sertyesilisik B., Kocak E., Sapci-Zengin Z.
JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, vol.7, pp.823-831, 2009 (Journal Indexed in SCI)
- XI. **Decolorization and COD reduction of UASB pretreated poultry manure wastewater by electrocoagulation process: A post-treatment study**
YETİLMEZSOY K., İLHAN F., Sapci-Zengin Z., ŞAKAR S., GÖNÜLLÜ M. T.
JOURNAL OF HAZARDOUS MATERIALS, vol.162, no.1, pp.120-132, 2009 (Journal Indexed in SCI)
- XII. **Stochastic modeling applications for the prediction of COD removal efficiency of UASB reactors treating diluted real cotton textile wastewater**
YETİLMEZSOY K., Sapci-Zengin Z.
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, vol.23, no.1, pp.13-26, 2009 (Journal Indexed in SCI)
- XIII. **Treatment of textile industry wastewater in anaerobic conditions; subcategory: Cotton industry**
Zengin Z., Aydinol F. I. T.
Fresenius Environmental Bulletin, vol.16, pp.1593-1599, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Atıksulardaki Ağır Metallerin Su Mercimeği ile Giderimi Üzerine Güncel Çalışmaların İncelenmesi**
Şapcı Ayas Z., Bahtiyar F., Yakan ., Dağdaş .
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, no.1, pp.109-117, 2019 (National Refreed University Journal)
- II. **Atıksuların Yeniden Kazanımında, Yapay Sulak Alanların Önemi ve İşletme Problemleri**
Şapcı Ayas Z., Türkmenoğlu M., Aşan A.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, no.1, pp.102-108, 2019 (National Refreed University Journal)
- III. **Evaluation of Environmental Public Attitudes in Tatvan County / Bitlis Province, A Case Studies: Secondary School Students**
DURMAZ BEKMEZCİ H., Şapcı Ayas Z.
. Middle East Journal of Education (MEJE), no.2, pp.19-32, 2016 (Refereed Journals of Other Institutions)
- IV. **Evaluating biogas in Norway - bioenergy and greenhouse gas reduction potentials**

Morken J., Sapci Z.

Agricultural Engineering International: CIGR Journal, vol.15, no.2, pp.148-160, 2013 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Ortaokul Öğrencilerinde Çevresel Bilinci; Bitlis Örneği**
DURMAZ BEKMEZCİ H., Şapcı Ayas Z.
Erman Basım Yayın Dağıtım, İstanbul, 2019
- II. **Evaluation of Anaerobic Treatability of Between Cotton and Polyester Textile Industry Wastewater**
Şapcı Ayas Z., Turkdogan F. I.
in: Waste Water - Treatment and Reutilization, Einschlag F. S. G., Editor, Intech, Rijeka, pp.49-64, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **Yozgat İli'nde Bulunan Kentsel-Endüstriyel Atıksu Aritma Tesisleri Ve Yapay Sulak Alanların Durumlarının İncelenmesi, Yaşanan Problemlerin Tespiti Ve Çözüm Önerileri**
fidan a., Şapcı Ayas Z.
5. Uluslararası Ispec Mühendislik Ve Fen Bilimleri Kongresi, Van, Turkey, 20 - 22 December 2019, pp.226-233
- II. **Avrupa'da, Dünya'da, ve Türkiye'de Biyogaz Üretimi**
YAMAÇ A., Şapcı Ayas Z.
5. Uluslararası Ispec Mühendislik Ve Fen Bilimleri Kongresi, Van, Turkey, 20 - 22 December 2019, pp.646-663
- III. **The Cost of Building an Ecolodge in Duhok Governorate, Northern Iraq**
Şapcı Ayas Z., Türkmenoğlu M., Araz BAHJAT ABDULLAH A.
Uluslararası Ispec Mühendislik Ve Fen Bilimleri Kongresi, Van, Turkey, 20 - 22 December 2019, pp.363-370
- IV. **Effect Of Adsorbent Pretreatment On Cod Removal In The Adsorption Of Textile Industry Wastewater With Potato Husk**
Şapcı Ayas Z., Öztürk D., DURMAZ BEKMEZCİ H.
5. Uluslararası Ispec Mühendislik Ve Fen Bilimleri Kongresi, Van, Turkey, 20 - 22 December 2019, pp.417-422
- V. **Environmental Impact of Freshwater Aquaculture on A Nature Based Tourism Site in North of Iraq, Duhok Governorate**
BAHJAT ABDULLAH A., Şapcı Ayas Z., Mohammed N. I.
4th International Engineering and Natural Sciences Conference (IENSC 2019), Diyarbakır, Turkey, 6 - 08 November 2019, pp.1038-1047
- VI. **Evaluation of Environmental Management of Small Size Wastewater Treatment Plants**
Hussein Mustafa N., Şapcı Ayas Z.
4th International Engineering and Natural Sciences Conference (IENSC 2019), Diyarbakır, Turkey, 6 - 08 November 2019, pp.1031-1037
- VII. **Evaluation of Suitability of Van Lake Water in Alkaline Hydrolysis of Wheat Straw in Biogas Production**
PİRO E., DURMAZ BEKMEZCİ H., Şapcı Ayas Z., Bekmezci o. K.
4th International Engineering and Natural Sciences Conference (IENSC 2019), Diyarbakır, Turkey, 6 - 08 November 2019, pp.9-12
- VIII. **The Effect of Current Density On Color Removal and Energy Consumption in the Treatment of Slaughterhouse Wastewater by Electro-Oxidation Method in a Continuous System**
Şapcı Ayas Z., Öztürk D.
4th international Scientific Research Congress, Yalova, Turkey, 14 - 17 February 2019, pp.246-252
- IX. **ATIK SULARIN YENİDEN KAZANIMINDA YAPAY SULAK ALANLARIN ÖNEMİ VE İŞLETME PROBLEMLERİ**

Şapcı Ayas Z., Türkmenoğlu M., Aşan A.

13. Ulusal Kimya Kongresi, Van, Turkey, 3 - 06 September 2018, pp.7491-7499

X. **ATIKSULARDAKİ AĞIR METALLERİN SU MERCİMEĞİ İLE GİDERİMİ ÜZERİNE GÜNCEL ÇALIŞMALARIN İNCELENMESİ**

Bahtiyar F., Yakan ., Dağdaş ., Şapcı Ayas Z.

13. Ulusal Kimya kongresi, Van, Turkey, 3 - 06 September 2018, pp.7198-7207

XI. **Atık Suların Yeniden Kazanımında Yapay Sulak Alanların Önemi ve İşletme Problemleri**

Şapcı Ayas Z., Türkmenoğlu M., Aşan A.

13. Ulusal Kimya Mühendisliği Kongresi, Van, Turkey, 3 - 06 September 2018, pp.7491-7498

XII. **Investigation of Environmental Attitude of Secondary School Students in Bitlis (TURKEY)**

Şapcı Ayas Z., DURMAZ BEKMEZCİ H., ÇİNKILIÇ Y. E.

The 3rd International Congress on Education Sciences and Learning Technology (ICESLT), Atina, Greece, 15 - 19 November 2017, pp.33

XIII. **Applications of phytoremediation in the World**

Şapcı Ayas Z.

International Conference on Multidisciplinary, Engineering, Science, Education and Technology (IMESET'17 Bitlis), Bitlis, Turkey, 27 - 29 October 2017, pp.135-140

XIV. **Greenhouse Gas Emissions from Cattle and Small Ruminant Breeding in Turkey and Biogas Proposal for this Emission Reduction**

Şapcı Ayas Z.

International Conference on Multidisciplinary, Engineering, Science, Education and Technology (IMESET'17 Bitlis), Bitlis, Turkey, 27 - 29 October 2017, pp.141-145

XV. **EVALUATION OF ENVIRONMENTAL PUBLIC ATTITUDES IN TATVAN COUNTY / BİTLİS PROVINCE, A CASE STUDIES: SECONDARY SCHOOL STUDENTS**

DURMAZ BEKMEZCİ H., Şapcı Ayas Z.

International Engineering, Science and Education Conference ISBN:978-975-7635-97-0, Diyarbakır, Turkey, 1 - 03 December 2016, pp.213-221

Supported Projects

Onay M., Şapcı Ayas Z., Project Supported by Higher Education Institutions, Mikroalglerin yağ miktarlarının belirlenmesi için uygun florasan metodun geliştirilmesi ve bunun biyodizel üretiminde kullanılması, 2017 - 2019

Memberships / Tasks in Scientific Organizations

Society of Environmental Engineers, Member, 2018 - Continues

Scientific Refereeing

Kentsel Katı Atıklar ve Geri Kazanımlarının Faydaları; Eskişehir Örneği, National Scientific Refreed Journal, December 2019

TUBITAK Project, August 2019

RSC ADVANCES, SCI Journal, May 2018

Sigma Journal of Engineering and Natural Sciences, National Scientific Refreed Journal, October 2017

Project Supported by Higher Education Institutions, March 2017

Scientific Research / Working Group Memberships

VAN YÜZÜNCÜ YIL ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, VAN YÜZÜNCÜ YIL ÜNİVERSİTESİ, Turkey,
<http://dergipark.gov.tr/yyufbed>, 2018 - 2019

Edit Congress and Symposium Activities

ISPEC 5. ULUSLARARASI MÜHENDİSLİK ve FEN BİLİMLERİ KONGRESİ, Session Moderator, Van, Turkey, 2019

4. Uluslararası Bilimsel Araştırma Kongresi, Session Moderator, Yalova, Turkey, 2019

International Conference on Multidisciplinary, Engineering, Science, Education and Technology (IMESET'17 Bitlis),
Session Moderator, Bitlis, Turkey, 2017

Global Conference of Environmental Studies, Moderator, Antalya, Turkey, 2013

international conference of agricultural engineering, Moderator, Valencia, Spain, 2012

International Conference of Agricultural Engineering, Moderator, Valencia, Spain, 2012

Citations

Total Citations (WOS):417

h-index (WOS):10

Awards

Şapcı Ayas Z., Teşvik yönergesinin 5/6 maddesi gereği ile TAKDİR BELGESİ, Bitlis Eren Üniversitesi, September 2014

Non Academic Experience

Other Public Institution, Tekirdağ Su Ve Kanalizasyon İdaresi