

# **Prof. Fatma Gülen İskender**

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## **Education Information**

Doctorate, İstanbul Technical University, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Turkey 1988 - 1997

Postgraduate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Yl) (Tezli), Turkey 1985 - 1988

Undergraduate, İstanbul Technical University, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Turkey 1981 - 1985

## **Foreign Languages**

English

## **Research Areas**

Environmental Engineering, Life Sciences, Biotechnology, Natural Sciences, Engineering and Technology

## **Academic Titles / Tasks**

Professor, İstanbul Technical University, İnşaat, Çevre Mühendisliği, 2007 - Continues

Associate Professor, İstanbul Technical University, İnşaat, Çevre Mühendisliği, 2001 - 2007

Research Assistant, İstanbul Technical University, İnşaat, Çevre Mühendisliği, 1986 - 2001

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

- I. **Life cycle assessment of a large water treatment plant in Turkey**  
Saad A., Elginöz Kanat N., Babuna F. F., İskender G.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.15, pp.14823-14834, 2019 (SCI-Expanded)
- II. **IMPACT OF SYNTHETIC ESTROGEN 17 ALPHAETHINYLESTRADIOL ON CARBON REMOVAL KINETICS**  
Çokgör E., Alanyali B., Topuz E., Zengin Balci G. E., Okutman Taş D., İskender F. G.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, pp.453-457, 2017 (SCI-Expanded)
- III. **IMPACT OF SYNTHETIC ESTROGEN 17 ALPHA-ETHINYLESTRADIOL ON CARBON REMOVAL KINETICS**  
Çokgör E., Alanyali B., Topuz E., Zengin Balci G. E., Okutman Taş D., İskender F. G.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.453-457, 2017 (SCI-Expanded)
- IV. **EFFECT OF DI-BUTYLPHthalATE SPILLAGE SCENARIOS ON THE GENERAL LAYOUT OF A PLANT**  
Avsar E., İskender F. G., DEMIR S., Babuna F. F.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.204-207, 2017 (SCI-Expanded)

- V. **Treatment options for effluents from a solid waste transport station**  
 KUTLUAY G., Iskender G., Babuna F. F., ORHON D.  
*DESALINATION*, vol.211, pp.96-101, 2007 (SCI-Expanded)
- VI. **Improving the wastewater management for a beverage industry with in-plant control**  
 OKTAY S., Iskender G., Babuna F. F., KUTLUAY G., ORHON D.  
*DESALINATION*, vol.211, pp.138-143, 2007 (SCI-Expanded)
- VII. **Investigation of the relation between COD fractions and the toxicity in a textile finishing industry wastewater Effect of preozonation**  
 Iskender F. G., SELÇUK H., MERİÇ PAGANO S.  
*DESALINATION*, vol.211, pp.314-320, 2007 (SCI-Expanded)
- VIII. **Treatability of cefazolin antibiotic formulation effluent with O<sub>3</sub> and O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub> processes**  
 Iskender G., SEZER A., Arslan-Alaton İ., Babuna F. F., Okay O. S.  
*WATER SCIENCE AND TECHNOLOGY*, vol.55, no.10, pp.217-225, 2007 (SCI-Expanded)
- IX. **Toxicity assessment of raw and ozonated biocidal finishing agents used in the textile industry**  
 ARSLAN ALATON İ., Okay O., İSKENDER F. G., Germirli Babuna F.  
*AATCC REVIEW*, vol.6, pp.43-48, 2006 (SCI-Expanded)
- X. **The effect of pre ozone oxidation on acute toxicity and inert soluble COD fractions of a textile finishing industry wastewater**  
 SELÇUK H., Iskender F. G., MERİÇ PAGANO S.  
*JOURNAL OF HAZARDOUS MATERIALS*, vol.137, pp.254-260, 2006 (SCI-Expanded)
- XI. **Determination of inert chemical oxygen demand (COD) fractions in a textile industry wastewater**  
 Eremektar G., Yildiz A., Meric S.  
*FRESENIUS ENVIRONMENTAL BULLETIN*, vol.13, no.10, pp.1061-1065, 2004 (SCI-Expanded)
- XII. **Effect of prefermentation on inert COD fractions in BNR systems**  
 Eremektar G., Randall A., McCue T.  
*FRESENIUS ENVIRONMENTAL BULLETIN*, vol.13, no.10, pp.1033-1035, 2004 (SCI-Expanded)
- XIII. **Evaluation of Influent Prefermentation as a Unit Process upon Biological Treatment**  
 McCue T., Shah R., Vassillav I., Liu Y. H., Iskender F. G., Chen Y., Randall A. A., Iskender F. G.  
*WATER SCIENCE AND TECHNOLOGY*, vol.47, no.11, pp.9-15, 2003 (SCI-Expanded)
- XIV. **Biological treatability of a corn wet mill effluent**  
 Eremektar G., Karahan-Gul Ö., Germirli-Babuna F. F., Ovez S., UNER H., ORHON D.  
*WATER SCIENCE AND TECHNOLOGY*, vol.45, no.12, pp.339-346, 2002 (SCI-Expanded)
- XV. **In-plant control applications and their effect on treatability of a textile mill wastewater**  
 DULKADIROGLU H., Eremektar G., Dogruel S., UNER H., Germirli-Babuna F. F., ORHON D.  
*WATER SCIENCE AND TECHNOLOGY*, vol.45, no.12, pp.287-295, 2002 (SCI-Expanded)
- XVI. **Fate of inert COD fractions in two-stage biological treatment of a strong wastewater**  
 Eremektar G., Babuna F. F., Ince O.  
*JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING*, vol.34, no.6, pp.1329-1340, 1999 (SCI-Expanded)
- XVII. **Biological treatability of poultry processing plant effluent - A case study**  
 Eremektar G., Cokgor E., Ovez S., Babuna F. F., ORHON D.  
*WATER SCIENCE AND TECHNOLOGY*, vol.40, no.1, pp.323-329, 1999 (SCI-Expanded)
- XVIII. **The Pollution Profile of Alcohol Distilleries Treating Beet Sugar Molasses**  
 Iskender F. G., TÜNAY O., Derin O., Ethem G.  
*WATER SCIENCE AND TECHNOLOGY*, vol.32, no.12, pp.181-188, 1995 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Ozonation of Common Textile Auxiliaries**  
 İSKENDER F. G., ARSLAN ALATON İ., Koyunluoğlu Ş., Yilmaz Z., BABUNA F. F.

- Earth and Environmental Science, vol.44, 2016 (Peer-Reviewed Journal)
- II. ASSESSMENT OF OCCUPATIONAL HEALTH AND SAFETY FOR A GAS METER MANUFACTURING PLANT**  
 Korkmaz E., İSKENDER F. G., BABUNA F. F.  
 Earth and Environmental Science, vol.44, 2016 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. Reducing the Toxicity of a Textile Xenobiotic through Ozonation**  
 Babuna F. F., Oruçtut N., Arslan Alaton İ., İskender F. G., Okay O.  
 in: Survival and Sustainability, Environmental Earth Sciences, Gokcekus H., Turker U., LaMoreaux JW., Editor, Springer Verlag, Berlin, pp.955-965, 2011
- II. Pretreatment of Ceftriaxone Formulation Effluents:Drawbacks and Benefits**  
 Tezgel T., Babuna F. F., Arslan Alaton İ., İskender F. G., Okay O.  
 in: Survival and Sustainability, Environmental Earth Sciences, Gokcekus H., Turker U., LaMoreaux JW., Editor, Springer Verlag, Berlin, pp.943-953, 2011

## Refereed Congress / Symposium Publications in Proceedings

- I.** • Evaluation of environmental sustainability for a water treatment plant via life cycle approach  
 Saad A., Elginöz Kanat N., Babuna F. F., İskender F. G.  
 Sixth International Conference on Environmental Management, Engineering, Planning & Economics (CEMEPE), Selanik, Greece, 25 - 30 July 2017, pp.21-29
- II.** Treatment of Cephalosporin Formulation Effluents and Biotransformation of Cephalosporins  
 Gönüllü Ü., İskender F. G., Babuna F. F., Dulkadiroğlu H.  
 2017 ICOCEE International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 8 - 10 May 2017, pp.3478-3484
- III.** Investigation of Occupational Health and Safety for a Plastic Package Manufacturing Facility  
 Çiçek K., İskender F. G., Dulkadiroğlu H., Babuna F. F.  
 2017 ICOCEE International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 2 - 10 May 2017, pp.3486-3492
- IV.** Treatment of Cephalosporin Formulation Effluents and Biotransformation of Cephalosporins  
 GÖNÜLLÜ Ü., İSKENDER F. G., BABUNA F. F., DULKADİROĞLU H.  
 2nd International Conference on Civil and Environmental Engineering, ICOCEE 2017, Nevşehir, Turkey, 8 - 10 May 2017, pp.3478-3484
- V.** Towards a Greener Port: Reducing the Carbon Footprint  
 Gültepe Mataraci G. D., İskender F. G., Babuna F. F.  
 3rd International Conference on Recycling and Reuse, R&R 2016, İstanbul, Turkey, 28 - 30 September 2016, pp.125-129
- VI.** Ozonation of Common Textile Auxiliaries  
 İskender G., Arslan-Alaton İ., KOYUNLUOGLU S., YILMAZ Z., Babuna F. G.  
 World Multidisciplinary Earth Sciences symposium (WMESS), Prague, Czech Republic, 5 - 09 September 2016, vol.44
- VII.** Türkiye de Evsel Kentsel Atıksu Arıtma Tesislerinin Mevcut Durumu Atıksu Arıtma Teknolojileri  
 Çamur İşleme ve Bertaraf Etme Yöntemlerinin Bölgesel Bazda Değerlendirilmesi  
 BÜYÜKKAMACI N., ERDİNÇLER A., SANİN F. D., İSKENDER F. G., AYOL A., ALAGÖZ A., İMAMOĞLU İ., GENCELİ N. E., FİLİZBELİ A., KARATAŞ Ö., et al.  
 İTÜ 13. Endüstriyel Kirlenme Kontrolü Sempozyumu, İstanbul, Turkey, 17 - 19 October 2012
- VIII.** IMPACT OF PREFERMENTATION ON WASTEWATER AND BIOKINETIC PARAMETERS FOR BIOLOGICAL NUTRIENT REMOVAL

McCue T., Randall A., İSKENDER F. G.

Water Environment Federation, 14 - 16 October 2007

**IX. The effects of propionic versus acetic acid content of domestic sewage on enhanced biological phosphorus removal**

Chen, Y., Trujillo, B., Biggerstaff, J., Ahmed, G., Lamb, B., İSKENDER F. G., McCue, T., Randall, A. A.

Proceedings of the Water Environment Federation, 26 - 28 September 2002

**X. Water Conservation and Wastewater Recovery and Reuse for A Wool Finishing Textile Industry**

DOĞRUEL S., DULKADİROĞLU H., İSKENDER F. G., BABUNA F. F., ORHON D.

ISWA 2002 World Environment Congress and Exhibition, 8 - 12 July 2002

## **Supported Projects**

İskender F. G., Project Supported by Higher Education Institutions, Sayaç Üretimi Tesisinde İş Sağlığı ve Güvenliği Değerlendirmesi, 2016 - 2018

İskender F. G., Project Supported by Higher Education Institutions, SENTETİK BİR HORMON OLAN 17 ALPHA-ETHİNYLESTRADIOL'İN KARBON GİDEREN SİSTEMLERE KRONİK ETKİSİ, 2015 - 2018

İskender F. G., Project Supported by Higher Education Institutions, ANTİBİYOTİK FORMÜLASYON ATIKSULARININ ÖNARITIMI SERFTRİAKSON ÖRNEĞİ, 2010 - 2018

İskender F. G., Project Supported by Higher Education Institutions, Sefazolin Antibiyotik Formülasyon Atıksularının O3 ve O3/H2O2 Prosesleri ile Arıtılabilirliği, 2006 - 2018

İskender F. G., Project Supported by Higher Education Institutions, Alkolsüz İçecek Endüstrisi için Atıksu Yönetimi, 2005 - 2018

İskender F. G., Project Supported by Higher Education Institutions, Atıksularda Sentetik Östrojenin ve Biyolojik Süreçler Sırasındaki Davranışının Belirlenmesi, 2009 - 2016

## **Metrics**

Publication: 41

Citation (WoS): 107

Citation (Scopus): 88

H-Index (WoS): 7

H-Index (Scopus): 7