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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, Turkey 2001 - 2006

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, Turkey 1998 - 2001

Undergraduate, Istanbul Technical University, İnşaat Fakültesi, Çevre Mühendisliği, Turkey 1993 - 1997

Dissertations

Doctorate, Sulardaki Fe(II) Konsantrasyonu ile Filtre Yük Kayıpları Arasındaki İlişkinin Araştırılması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, 2006

Postgraduate, Atıksu Toplama Şebekeleri için Otomatik Kontrol Sistemini Geliştirme Esasları, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği, 2001

Research Areas

Environmental Engineering, Environmental Technology, Waste Water Collection and Treatment, Water Pollution and Control, Water Supply and Treatment, Engineering and Technology

Academic Titles / Tasks

Professor, Yıldız Teknik Üniversitesi, Faculty Of Civil Engineering, Çevre Mühendisliği Bölümü, 2014 - Continues

Associate Professor, Yıldız Teknik Üniversitesi, Faculty Of Civil Engineering, Çevre Mühendisliği Bölümü, 2009 - 2014

Associate Professor, Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2009 - 2009

Assistant Professor, Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2007 - 2009

Research Assistant PhD, Bülent Ecevit Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2006 - 2007

Research Assistant, Istanbul Technical University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2002 - 2006

Advising Theses

- ÇAKMAKCI M., Sakarya Nehri su kalitesinin mevsimsel karakterizasyonu ve mikrokirleticilerin ileri arıtım yöntemleriyle giderilmesi, Doctorate, F.BÜŞRA(Student), 2017
- ÇAKMAKCI M., SIZINTI SULARININ MEMBRAN PROSESLERLE ARITILABİLİRLİĞİ: ODAYERİ ÖRNEĞİ, Postgraduate, G.ACI(Student), 2016
- ÇAKMAKCI M., Tam Ölçekli Katı Atık Düzenli Depolama Sahası Ham ve MBR Arıtımı Sonrası Sızıntı Sularında Kirleticilerin Moleküler Ağırlık Dağılımları, Postgraduate, M.CAMPAGNA(Student), 2016
- ÇAKMAKCI M., İSTANBUL YÜZEYSEL SULARININ DÜŞÜK BASINÇLI UF MEMBRANLARI İLE ARITILMASI, Doctorate, İ.KARALI(Student), 2016
- ÇAKMAKCI M., YÜZEYİ KAPLANMIŞ ULTRAFİLTRASYON MEMBRANLARI İLE İÇME SULARINDAKİ ORGANİK KİRETİCİLERİN ARITILABİLİRLİĞİ, Postgraduate, İ.HAKKI(Student), 2016
- ÇAKMAKCI M., Kompost ve Geri Kazanım Tesisi Sızıntı Sularının Membran Proseslerle Arıtılabilirliği: İstanbul Örneği, Postgraduate, V.Şeyda(Student), 2016
- ÇAKMAKCI M., SULARDA BULUNAN ARSENiĞİN DÜŞÜK BASINÇLA İŞLETİLEN MEMBRANLARLA ARITILABİLİRLİĞİNİN ARAŞTIRILMASI, Postgraduate, H.ELCİK(Student), 2016
- ÇAKMAKCI M., Membran distilasyon prosesi ile içme sularındaki arseniğin arıtılabilirliği, Postgraduate, D.YEŞİLİRMAK(Student), 2016
- ÇAKMAKCI M., Mikroalg hasadında membran proseslerin kullanımı ve işletme şartlarının optimizasyonu, Doctorate, H.ELCİK(Student), 2016
- ÇAKMAKCI M., Tekstil atıksularının membran proseslerle arıtımı sonucu oluşan konsantrenin biyokimyasal metan potansiyelinin belirlenmesi, Postgraduate, M.İBERİA(Student), 2016
- ÇAKMAKCI M., METAL KAPLAMA ATIKSULARININ FİZİKOKİMYASAL ARITMA YÖNTEMLERİYLE ARITILMASI, Postgraduate, Ö.İNOĞLU(Student), 2016
- ÇAKMAKCI M., TAM ÖLÇEKLİ DÜZENLİ DEPOLAMA SAHASINDA DEPOLANMIŞ EVSEL KATI ATIKLARIN METAN POTANSİYELİNİN STOKASTİK YÖNTEMLERLE BELİRLENMESİ, Doctorate, İ.SEL(Student), 2016
- ÇAKMAKCI M., TEKSTİL ATIKSULARININ NANOFİLTRASYON MEMBRANI İLE ARITIMI SONUCU OLUŞAN KONSANTRENİN ANAEROBİK ARITILABİLİRLİĞİ, Postgraduate, V.ÇELEBİ(Student), 2016
- ÇAKMAKCI M., Kompost ve Geri Kazanım Tesisi Sızıntı Sularının Membran Proseslerle Arıtılabilirliği: İstanbul Örneği, Postgraduate, V.Şeyda(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Oxidative removal of oxytetracycline by UV-C/hydrogen peroxide and UV-C/peroxymonosulfate: Process optimization, kinetics, influence of co-existing ions, and quenching experiments**
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- II. **Chemical precipitation and membrane distillation process for the treatment of acidic anodic oxidation wastewaters**
Tuerk O. K., Zoungrana A., cakmakci M.
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- III. **From non-renewable energy to renewable by harvesting salinity gradient power by reverse electrodialysis: A review**
Zoungrana A., ÇAKMAKCI M.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.3, pp.3495-3522, 2021 (SCI-Expanded)
- IV. **Optimization of the reverse electrodialysis power output through the ratio of the feed solutions salinity**
Zoungrana A., ÇAKMAKCI M.
IET RENEWABLE POWER GENERATION, vol.15, pp.769-777, 2021 (SCI-Expanded)
- V. **Reverse electrodialysis salinity gradient power potential of treated municipal wastewaters used as**

diluted solution

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INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.23, no.4, pp.463-481, 2021 (SCI-Expanded)

- VI. **Energy coverage of ataköy-ambarlı municipal wastewater treatment plants by salinity gradient power**
Zoungrana A., Türk O. K., Çakmakçı M.
JOURNAL OF WATER PROCESS ENGINEERING, vol.38, pp.1-10, 2020 (SCI-Expanded)
- VII. **Ammoniacal nitrogen reclamation by membrane distillation from high ammonia polluted solutions**
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CHEMICAL PAPERS, vol.74, no.6, pp.1903-1915, 2020 (SCI-Expanded)
- VIII. **TREATMENT PROCESSES BASED ON THE MOLECULAR WEIGHT DISTRIBUTION OF TEXTILE DYEING WASTEWATER**
Yaman F. B., ÇAKMAKCI M., KARADAĞ D., Ozkaya B., Bali V., Dora B.
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- IX. **Combination of low-pressure UF membranes with conventional water treatment systems**
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GLOBAL NEST JOURNAL, vol.19, no.4, pp.584-591, 2017 (SCI-Expanded)
- X. **BMP estimation of landfilled municipal solid waste by multivariate statistical methods using specific waste parameters: case study of a sanitary landfill in Turkey**
SEL İ., ÇAKMAKCI M., Ozkaya B., GURELİ F.
JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT, vol.19, no.4, pp.1479-1487, 2017 (SCI-Expanded)
- XI. **Post-treatment of anaerobically-treated compost leachate by membrane systems: emphasis on molecular weight distribution**
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- XII. **Harvesting of microalgae via submerged membranes: flux, fouling and its reversibility**
Elcik H., ÇAKMAKCI M.
MEMBRANE WATER TREATMENT, vol.8, no.5, pp.499-515, 2017 (SCI-Expanded)
- XIII. **Removal of micropollutants from Sakarya River water by ozone and membrane processes**
YAMAN F. B., ÇAKMAKCI M., Yuksel E., Ozen I., GENGEÇ E.
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- XIV. **Preparation and characterisation of novel polysulfone membranes modified with Pluronic F-127 for reducing microalgal fouling**
Elcik H., ÇAKMAKCI M., ÖZKAYA B.
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- XV. **The treatability of landfill leachate by direct contact membrane distillation and factors influencing the efficiency of the process**
ZOUNGRANA A., ZENGİN İ. H., Elcik H., ÖZKAYA B., ÇAKMAKCI M.
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- XVI. **Microalgae production and biofuel from microalgae**
Elcik H., ÇAKMAKCI M.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.3, pp.795-820, 2017 (SCI-Expanded)
- XVII. **Harvesting microalgal biomass using crossflow membrane filtration: critical flux, filtration performance, and fouling characterization**
Elcik H., ÇAKMAKCI M.
ENVIRONMENTAL TECHNOLOGY, vol.38, no.12, pp.1585-1596, 2017 (SCI-Expanded)
- XVIII. **Case study on prediction of remaining methane potential of landfilled municipal solid waste by statistical analysis of waste composition data**
SEL İ., ÇAKMAKCI M., ÖZKAYA B., ALTAN H. S.
WASTE MANAGEMENT, vol.56, pp.310-317, 2016 (SCI-Expanded)

- XIX. **Performance of nanofiltration and reverse osmosis membranes for arsenic removal from drinking water**
Elcik H., Celik S. O., ÇAKMAKCI M., ÖZKAYA B.
DESALINATION AND WATER TREATMENT, vol.57, no.43, pp.20422-20429, 2016 (SCI-Expanded)
- XX. **Treatment of metal-plating waste water by modified direct contact membrane distillation**
ZOUNGRANA A., ÇAKMAKCI M., ZENGİN I. H., İNOĞLU O., Elcik H.
CHEMICAL PAPERS, vol.70, no.9, pp.1185-1195, 2016 (SCI-Expanded)
- XXI. **Molecular weight distributions in cotton-dyeing textile wastewaters**
YAMAN F. B., ÇAKMAKCI M., KARADAĞ D., ÖZKAYA B., BALI V., DORA B.
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- XXII. **MOLECULAR WEIGHT DISTRIBUTION OF POLLUTANTS IN LEACHATE FROM FULL SCALE LANDFILL SITE**
Yaman F. B., ÇAKMAKCI M., Campagna M., ÖZKAYA B.
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- XXIII. **COMPARISON OF TREATMENT EFFICIENCY AND MOLECULAR WEIGHT DISTRIBUTION OF MEMBRANE CONCENTRATE FROM TEXTILE WASTEWATER**
Yaman F. B., Çakmakcı M., Karadağ D., Yetilmezsoy K., Özkaya B., Tur kay H., Genc T.
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- XXIV. **Arsenic removal from drinking water by direct contact membrane distillation**
ZOUNGRANA A., ZENGİN I. H., Elcik H., YESİLİRMAK D., KARADAĞ D., ÇAKMAKCI M.
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- XXV. **The fouling effects of microalgal cells on crossflow membrane filtration**
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- XXVI. **SIMULTANEOUS OXIDATION/CO-PRECIPI TATION OF As(III) AND Fe(II) WITH HYPOCHLORITE AND OZONE**
ELCİK H., Celik S. O., ÇAKMAKCI M., ŞAHİNKAYA E., ÖZKAYA B.
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- XXVII. **The production of electricity from dual-chambered microbial fuel cell fueled by old age leachate**
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- XXVIII. **EFFECT OF PRE-OZONATION ON ANAEROBIC TREATABILITY OF MEMBRANE CONCENTRATE**
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FRESENIUS ENVIRONMENTAL BULLETIN, vol.25, pp.1206-1220, 2016 (SCI-Expanded)
- XXIX. **Anaerobic granular reactors for the treatment of dairy wastewater: A review**
KARADAĞ D., KOROĞLU O. E., ÖZKAYA B., ÇAKMAKCI M., Heaven S., Banks C., Serna-Maza A.
INTERNATIONAL JOURNAL OF DAIRY TECHNOLOGY, vol.68, no.4, pp.459-470, 2015 (SCI-Expanded)
- XXX. **TREATMENT OF COMPOST LEACHATE BY MEMBRANE PROCESSES**
OZYAKA V. S., ÇAKMAKCI M., Yaman F. B., ÖZKAYA B., KARADAĞ D.
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- XXXI. **Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration**
Cetinkaya A. Y., Köroğlu E. O., Manav Demir N., Baysoy D. Y., Ozkaya B., Çakmakcı M.
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- XXXII. **Anaerobic treatment of ozonated membrane concentrate**
Yaman F. B., Çakmakcı M., Ozkaya B., Karadağ D., Yetilmezsoy K., Dora B., Celebi V.
DESALINATION AND WATER TREATMENT, vol.54, pp.2075-2081, 2015 (SCI-Expanded)
- XXXIII. **Biotreatment of As-containing simulated acid mine drainage using laboratory scale sulfate reducing upflow anaerobic sludge blanket reactor**
ŞAHİNKAYA E., YURTSEVER A., TOKER Y., Elcik H., Cakmaci M., KAKSONEN A. H.

- MINERALS ENGINEERING, vol.75, pp.133-139, 2015 (SCI-Expanded)
- XXXIV. **A review on anaerobic biofilm reactors for the treatment of dairy industry wastewater**
KARADAĞ D., KOROĞLU O. E., ÖZKAYA B., ÇAKMAKCI M.
PROCESS BIOCHEMISTRY, vol.50, no.2, pp.262-271, 2015 (SCI-Expanded)
- XXXV. **Electricity generating capacity and performance deterioration of a microbial fuel cell fed with beer brewery wastewater**
KÖROĞLU E. O., ÖZKAYA B., DENKTAS C., ÇAKMAKCI M.
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, vol.118, no.6, pp.672-678, 2014 (SCI-Expanded)
- XXXVI. **A review on fermentative hydrogen production from dairy industry wastewater**
KARADAĞ D., Koroglu O. E., ÖZKAYA B., ÇAKMAKCI M., Heaven S., Banks C.
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- XXXVII. **Novel design of a multitube microbial fuel cell ((UMFC)-F-2) for energy recovery and treatment of membrane concentrates**
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- XXXVIII. **Natural Organic Matter Removal and Fouling in a Low Pressure Hybrid Membrane Systems**
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- XL. **Arsenic Removal from Drinking Water Using Low Pressure Membranes**
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- XLI. **Molecular weight distribution of a full-scale landfill leachate treatment by membrane bioreactor and nanofiltration membrane**
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- XLIV. **Profiling of bacterial community in a full-scale aerobic composting plant**
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- XLV. **Meteorological parameters as an important factor on the energy recovery of landfill gas in landfills**
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- XLVI. **Biological treatability processes of textile wastewaters using electrocoagulation and ozonation**
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- XLVII. **Effect of organic and inorganic matters on the oxidation of Fe(II) in raw water from Omerli Dam**
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- LI. **Adaptive Neuro-Fuzzy Modeling of Head Loss in Iron Removal with Rapid Sand Filtration**
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- LIII. **Cost analysis of seawater desalination with reverse osmosis in Turkey**
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- II. **THE EFFECTS OF FERRIC IRON AND ORGANIC MATTER ON ARSENITE REMOVAL FROM WATER BY DIRECT CONTACT MEMBRANE**
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Citation (WoS): 1359

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Non Academic Experience

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