

Prof. Mehmet ÇAKMAKCI

Personal Information

Mobile Phone: [+90 535 772 3368](tel:+905357723368)

Fax Phone: [+90 212 383 5358](tel:+902123835358)

Office Phone: [+90 212 383 5381](tel:+902123835381)

Email: cakmakci@yildiz.edu.tr

Other Email: cakmakci1974@gmail.com

Web: <http://avesis.yildiz.edu.tr/cakmakci/>

Address: Yıldız Teknik Üniversitesi İnşaat Fakültesi Çevre Mühendisliği Bölümü Davutpaşa Kampüsü 34220 Esenler İstanbul

International Researcher IDs

ScholarID: ReFLVU4AAAAJ

ORCID: 0000-0003-4784-6006

Publons / Web Of Science ResearcherID: AAA-1897-2019

ScopusID: 58620724300

Yoksis Researcher ID: 121361

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

Supervised Theses

- ÇAKMAKCI M., Sakarya Nehri su kalitesinin mevsimsel karakterizasyonu ve mikrokirleticilerin ileri arıtım yöntemleriyle giderilmesi, Doctorate, F.BÜŞRA(Student), 2017
- ÇAKMAKCI M., TAM ÖLÇEKLİ DÜZENLİ DEPOLAMA SAHASINDA DEPOLANMIŞ EVSEL KATI ATIKLARIN METAN POTANSİYELİNİN STOKASTİK YÖNTEMLERLE BELİRLENMESİ, Doctorate, İ.SEL(Student), 2016
- 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., 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., İSTANBUL YÜZEYSEL SULARININ DÜŞÜK BASINÇLI UF MEMBRANLARI İLE ARITILMASI, Doctorate, İ.KARALİ(Student), 2016
- ÇAKMAKCI M., YÜZEYİ KAPLANMIŞ ULTRAFİLTRASYON MEMBRANLARI İLE İÇME SULARINDAKİ ORGANİK KİRLETİCİLERİN ARITILABİLİRLİĞİ, Postgraduate, İ.Hakkı(Student), 2016
- ÇAKMAKCI M., Kompost ve Geri Kazanım Tesisi Sızıntı Sularının Membran Proseslerle Arıtılabilirliği: İstanbul Örneği, Postgraduate, V.Şeyda(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., Tekstil atıksularının membran proseslerle arıtımı sonucu oluşan konsantrenin biyokimyasal metan potansiyelinin belirlenmesi, Postgraduate, M.İberia(Student), 2016
- ÇAKMAKCI M., TEKSTİL ATIKSULARININ NANOFİLTRASYON MEMBRANI İLE ARITIMI SONUCU OLUŞAN KONSANTRENİN ANAEROBİK ARITILABİLİRLİĞİ, Postgraduate, V.ÇELEBİ(Student), 2016
- ÇAKMAKCI M., METAL KAPLAMA ATIKSULARININ FİZİKOKİMYASAL ARITMA YÖNTEMLERİYLE ARITILMASI, Postgraduate, Ö.İNOĞLU(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of Silt Density Index and Modified Fouling Index Responses to Fouling Concentration and Particle Size**
TÜRK O. K., Gosterislioglu D. G., ÇAKMAKCI M.
Water, Air, and Soil Pollution, vol.236, no.4, 2025 (SCI-Expanded)
- II. **Performances of PTFE and PVDF membranes in achieving the discharge limit of mixed anodic oxidation coating wastewaters treated by membrane distillation**
TÜRK O. K., Zoungrana A., ÇAKMAKCI M.
Environmental Science and Pollution Research, vol.31, no.27, pp.39663-39677, 2024 (SCI-Expanded)
- III. **Oxidative removal of oxytetracycline by UV-C/hydrogen peroxide and UV-C/peroxymonosulfate: Process optimization, kinetics, influence of co-existing ions, and quenching experiments**
VARANK G., CAN GÜVEN E., YAZICI GÜVENÇ S., Garazade N., TÜRK O. K., DEMİR A., ÇAKMAKCI M.
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- IV. **Chemical precipitation and membrane distillation process for the treatment of acidic anodic oxidation wastewaters**
Tuerk O. K., Zoungrana A., cakmakci M.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.10, no.4, 2022 (SCI-Expanded)
- V. **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)

- VI. **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)
- VII. **Reverse electrodialysis salinity gradient power potential of treated municipal wastewaters used as diluted solution**
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- VIII. **Energy coverage of ataköy-ambarlı municipal wastewater treatment plants by salinity gradient power**
Zoungrana A., TÜRK O. K., ÇAKMAKCI M.
Journal of Water Process Engineering, vol.38, 2020 (SCI-Expanded)
- IX. **Ammoniacal nitrogen reclamation by membrane distillation from high ammonia polluted solutions**
Zoungrana A., Zengin I. H., Türk O. K., Çakmakçı M.
CHEMICAL PAPERS, vol.74, no.6, pp.1903-1915, 2020 (SCI-Expanded)
- X. **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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- XI. **Combination of low-pressure UF membranes with conventional water treatment systems**
Karali İ., ÇAKMAKCI M., Koyuncu İ., DEMİR A., KARADAĞ D.
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- XII. **Post-treatment of anaerobically-treated compost leachate by membrane systems:emphasis on molecular weight distribution**
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- XIII. **BMP estimation of landfilled municipal solid waste by multivariate statistical methods using specific waste parameters: case study of a sanitary landfill in Turkey**
SEL I., ÇAKMAKCI M., Ozkaya B., GURELI F.
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- XIV. **Harvesting of microalgae via submerged membranes: flux, fouling and its reversibility**
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- XV. **Removal of micropollutants from Sakarya River water by ozone and membrane processes**
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ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.189, no.9, 2017 (SCI-Expanded)
- XVI. **Preparation and characterisation of novel polysulfone membranes modified with Pluronic F-127 for reducing microalgal fouling**
Elcik H., ÇAKMAKCI M., ÖZKAYA B.
Chemical Papers, vol.71, no.7, pp.1271-1290, 2017 (SCI-Expanded)
- XVII. **The treatability of landfill leachate by direct contact membrane distillation and factors influencing the efficiency of the process**
ZOUNGRANA A., ZENGIN I. H., Elcik H., ÖZKAYA B., ÇAKMAKCI M.
DESALINATION AND WATER TREATMENT, vol.71, pp.233-243, 2017 (SCI-Expanded)
- XVIII. **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)

- XIX. **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)
- XX. **Case study on prediction of remaining methane potential of landfilled municipal solid waste by statistical analysis of waste composition data**
SEL I., ÇAKMAKCI M., OZKAYA B., ALTAN H. S.
WASTE MANAGEMENT, vol.56, pp.310-317, 2016 (SCI-Expanded)
- XXI. **Treatment of metal-plating waste water by modified direct contact membrane distillation**
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- XXII. **Performance of nanofiltration and reverse osmosis membranes for arsenic removal from drinking water**
Elcik H., Celik S. O., ÇAKMAKCI M., OZKAYA B.
DESALINATION AND WATER TREATMENT, vol.57, no.43, pp.20422-20429, 2016 (SCI-Expanded)
- XXIII. **Molecular weight distributions in cotton-dyeing textile wastewaters**
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- XXIV. **MOLECULAR WEIGHT DISTRIBUTION OF POLLUTANTS IN LEACHATE FROM FULL SCALE LANDFILL SITE**
Yaman F. B., ÇAKMAKCI M., Campagna M., ÖZKAYA B.
GLOBAL NEST JOURNAL, vol.18, no.2, pp.360-370, 2016 (SCI-Expanded)
- XXV. **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., Turkay H., Genc T.
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ZOUNGRANA A., ZENGİN I. H., Elcik H., YESİLİRMAK D., KARADAĞ D., ÇAKMAKCI M.
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JOURNAL OF MEMBRANE SCIENCE, vol.499, pp.116-125, 2016 (SCI-Expanded)
- XXVIII. **EFFECT OF PRE-OZONATION ON ANAEROBIC TREATABILITY OF MEMBRANE CONCENTRATE**
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- XXIX. **SIMULTANEOUS OXIDATION/CO-PRECIPITATION OF As(III) AND Fe(II) WITH HYPOCHLORITE AND OZONE**
ELCÍK H., Celik S. O., ÇAKMAKCI M., ŞAHİNKAYA E., ÖZKAYA B.
OXIDATION COMMUNICATIONS, vol.39, pp.2682-2692, 2016 (SCI-Expanded)
- XXX. **The production of electricity from dual-chambered microbial fuel cell fueled by old age leachate**
CETINKAYA A. Y., ÖZKAYA B., Taskan E., KARADAĞ D., ÇAKMAKCI M.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.11, pp.1544-1552, 2016 (SCI-Expanded)
- XXXI. **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.
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- XXXII. **TREATMENT OF COMPOST LEACHATE BY MEMBRANE PROCESSES**
OZYAKA V. S., ÇAKMAKCI M., Yaman F. B., OZKAYA B., KARADAĞ D.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.14, no.9, pp.2237-2241, 2015 (SCI-Expanded)
- XXXIII. **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.
Cuihua Xuebao/Chinese Journal of Catalysis, vol.36, no.7, pp.1068-1076, 2015 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **A review on anaerobic biofilm reactors for the treatment of dairy industry wastewater**
KARADAĞ D., KOROGLU O. E., ÖZKAYA B., ÇAKMAKCI M.
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- XXXVII. **Electricity generating capacity and performance deterioration of a microbial fuel cell fed with beer brewery wastewater**
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- XXXVIII. **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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- XL. **Change of surface and structure properties of cation exchange membrane in a microbial fuel cell**
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- XLI. **Natural Organic Matter Removal and Fouling in a Low Pressure Hybrid Membrane Systems**
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- XLII. **Arsenic Removal from Drinking Water Using Low Pressure Membranes**
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- XLIV. **Molecular weight distribution of a full-scale landfill leachate treatment by membrane bioreactor and nanofiltration membrane**
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- XLVI. **Profiling of bacterial community in a full-scale aerobic composting plant**
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- L. **ARTIFICIAL INTELLIGENCE-BASED PREDICTION MODELS FOR ENVIRONMENTAL ENGINEERING**
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- LI. **A Modeling Approach for Iron Concentration in Sand Filtration Effluent Using Adaptive Neuro-Fuzzy Mode**
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- LII. **Comparison of nanofiltration and adsorption techniques to remove arsenic from drinking water**
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- LIX. **Fuzzy logic modeling of the dissolved oxygen fluctuations in Golden Horn**
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