

Personal Information

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Education Information

Doctorate, Yıldız Teknik Üniversitesi, Faculty of Construction, Çevre Mühendisliği, Turkey 2012 - 2017

Post Graduate, Yıldız Teknik Üniversitesi, Faculty of Construction, Çevre Mühendisliği, Turkey 2010 - 2012

Under Graduate, Selçuk Üniversitesi, Mühendislik-Mimarlık Fakültesi, Çevre Mühendisliği, Turkey 2003 - 2008

Dissertations

Doctorate, Aerobik membran biyoreaktörlerde farklı karbon/azot oranına sahip atıksuların arıtımı ve aktif çamur özelliklerinin değişimi , Yıldız Teknik Üniversitesi, Faculty of Construction, Çevre Mühendisliği, 2017

Post Graduate, Elektrodializ bipolar membran prosesiyle artırılmış sızıntı suyunun fenton oksidasyonu ile nihai arıtımının değerlendirilmesi / Evaluation of final treatment with fenton oxidation of treated leachate by electro dialysis bipolar membrane process, Yıldız Teknik Üniversitesi, Faculty of Construction, Çevre Mühendisliği, 2012

Research Areas

Environmental Engineering, Environmental Sciences, Environmental Chemistry, Environmental Technology, Waste Water Collection and Treatment, Industrial and Hazardous Waste Management, Water Pollution and Control, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Yıldız Technical University, Faculty Of Construction, Department Of Environmental Engineering, 2020 - Continues

Research Assistant PhD, Yıldız Teknik Üniversitesi, Faculty of Construction, Çevre Mühendisliği, 2017 - Continues

Research Assistant, Yıldız Teknik Üniversitesi, Faculty of Construction, Çevre Mühendisliği, 2010 - 2017

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

- **Feasibility Studies on the Effect of Natural Plant Compounds on Sludge Characteristics in a Batch-Type Aerobic Reactor and N-butyryl-L Homoserine Lactone**
Turan N. B. , Erkan H., Chormey D. S. , ÇAĞLAK A., BAKIRDERE S., Engin G. O.
ANALYTICAL LETTERS, vol.53, pp.2431-2444, 2020 (Journal Indexed in SCI)
- **Optimization of atrazine removal from synthetic groundwater by electrooxidation process using titanium dioxide and graphite electrodes**
BAKARAKI TURAN N., SARI ERKAN H., ÇAĞLAK A., BAKIRDERE S., ENGİN G.
Separation Science And Technology, pp.1-10, 2019 (Journal Indexed in SCI)
- **Binary dispersive liquid-liquid microextraction strategy for accurate and precise determination of micropollutants in lake, well and wastewater matrices**
SARI ERKAN H., CHORMEY D. S. , ÇAĞLAK A., DALGIÇ BOZYİĞİT G., MALTEPE E., ENGİN G., BAKIRDERE S.
Bulletin Of Environmental Contamination And Toxicology, pp.1-10, 2019 (Journal Indexed in SCI)
- **Nanoparticles in the aquatic environment: Usage, properties, transformation and toxicity—A review**

BAKARAKI TURAN N., SARI ERKAN H., ENGIN G., BİLGİLİ M. S.

Process Safety And Environmental Protection, vol.130, pp.238-249, 2019 (Journal Indexed in SCI)

- **Waste activated sludge disintegration by hydroxyl and sulfate radical-based oxidations: A comparative study**
Sari Erkan H.
ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY, pp.2027-2040, 2019 (Journal Indexed in SCI)
- **Wastewater treatment from the biodiesel production using waste cooking oil by electrocoagulation: a multivariate approach**
Sari Erkan H.
WATER SCIENCE AND TECHNOLOGY, vol.79, no.12, pp.2366-2377, 2019 (Journal Indexed in SCI)
- **Performance and activated sludge characteristics at short solid retention time in a submerged MBR: effects of C/N ratio of wastewater**
Sari Erkan H., Engin G.
Environmental Technology, vol.40, pp.2085-2092, 2019 (Journal Indexed in SCI Expanded)
- **Preliminary study testing the effects of tea and coffee on sludge characteristics and N-butyryl-L-homoserine lactone in an MBR system**
BAKARAKI TURAN N., CHORMEY D. S. , SARI ERKAN H., ÇAĞLAK A., SARAL M., BAKIRDERE S., ENGIN G.
Environmental Technology, pp.1-10, 2019 (Journal Indexed in SCI Expanded)
- **Treatment of metal plating wastewater using iron electrode by electrocoagulation process: Optimization and process performance**
ÖDEN M. K. , SARI ERKAN H.
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.119, pp.207-217, 2018 (Journal Indexed in SCI)
- **Modeling and optimizing Fenton and electro-Fenton processes for dairy wastewater treatment using response surface methodology**
Kurtoğlu Akkaya G., Sari Erkan H., Sekman E., Top S., Karaman H., Bilgili M. S. , Engin G.
International Journal Of Environmental Science And Technology, pp.2343-2358, 2018 (Journal Indexed in SCI Expanded)
- **The investigation of chemical coagulation and electrocoagulation processes for tannery wastewater treatment using response surface methodology**
Erkan H., Guvenc S., Varank G., Engin G. O.
DESALINATION AND WATER TREATMENT, vol.113, pp.57-73, 2018 (Journal Indexed in SCI)
- **Optimization of paper mill industry wastewater treatment by electrocoagulation and electro-Fenton processes using response surface methodology**
Guvenc S., ERKAN H., VARANK G., BİLGİLİ M. S. , ENGIN G. O.
WATER SCIENCE AND TECHNOLOGY, vol.76, pp.2015-2031, 2017 (Journal Indexed in SCI)
- **The investigation of paper mill industry wastewater treatment and activated sludge properties in a submerged membrane bioreactor**
Erkan H., Engin G. O.
WATER SCIENCE AND TECHNOLOGY, vol.76, pp.1715-1725, 2017 (Journal Indexed in SCI)
- **The investigation of shale gas wastewater treatment by electro-Fenton process: Statistical optimization of operational parameters**
Turan N. B. , ERKAN H., ENGIN G.
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.109, pp.203-213, 2017 (Journal Indexed in SCI)
- **Activated sludge properties in a submerged membrane bioreactor: effect of COD/TKN ratio of wastewater**
Erkan H., Engin G., Kulil B., Günalp G.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.14, pp.933-942, 2017 (Journal Indexed in SCI)
- **Wastewater treatment from shale gas operation by Fenton process: a statistical optimization**
ERKAN H., Turan N. B. , ENGIN G.
DESALINATION AND WATER TREATMENT, vol.70, pp.125-133, 2017 (Journal Indexed in SCI)
- **Effect of carbon to nitrogen ratio of feed wastewater and sludge retention time on activated sludge in a**

submerged membrane bioreactor

Erkan H., Engin G., Ince M., Bayramoglu M. R.

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.23, pp.10742-10752, 2016 (Journal Indexed in SCI)

- **COST ANALYSIS OF SEAWATER DESALINATION USING AN INTEGRATED REVERSE OSMOSIS SYSTEM ON A CRUISE SHIP**

Guler E., Engin O. G. , Çelen M., Erkan H.

GLOBAL NEST JOURNAL, vol.17, pp.389-396, 2015 (Journal Indexed in SCI)

- **Final treatment of young, middle-aged, and stabilized leachates by Fenton process: optimization by response surface methodology**

Erkan H., Apaydin Ö.

DESALINATION AND WATER TREATMENT, vol.54, pp.342-357, 2015 (Journal Indexed in SCI)

- **Electrocoagulation of Tannery Wastewater using Monopolar Electrodes Process Optimization by Response Surface Methodology**

VARANK G., SARI ERKAN H., YAZICI S., DEMİR A., ENGİN G.

International Journal Of Environmental Research, vol.8, pp.165-180, 2014 (Journal Indexed in SCI Expanded)

- **Evaluation of treatment and recovery of leachate by bipolar membrane electro dialysis process**

İLHAN F., KABUK H. A. , KURT U., AVŞAR Y., SARI ERKAN H., GÖNÜLLÜ M. T.

Chemical Engineering And Processing, pp.67-74, 2014 (Journal Indexed in SCI Expanded)

- **Investigation of Sorption Characteristics of Anaerobically Digested Dewatered Municipal Sewage Sludge**

Varank G., Demir A., Bilgili M. S. , Selin T., Sekman E., Yazıcı S., Sari Erkan H.

Environment Protection Engineering, vol.40, pp.119-133, 2014 (Journal Indexed in SCI Expanded)

- **Equilibrium and kinetic studies on the removal of heavy metal ions by natural low cost adsorbents**

VARANK G., DEMİR A., BİLGİLİ M. S. , SELİN T., SEKMAN E., YAZICI S., SARI ERKAN H.

Environment Protection Engineering, vol.40, pp.43-61, 2014 (Journal Indexed in SCI Expanded)

- **Fuzzy logic modeling of Fenton s strong chemical oxidation process treating three types of landfill leachates**

SARI ERKAN H., YETİLMEZSOY K., İLHAN F., YAZICI S., KURT U., APAYDIN Ö.

Environmental Science And Pollution Research, vol.20, pp.4235-4253, 2013 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- **An investigation on the application of Call-Fell-Felll magnetic hydroxalcite-like-compounds for the removal of impurities in aqueous systems**

ENGİN G., SARI ERKAN H., WHITE D.

Environmental Research and Technology, vol.3, pp.20-27, 2020 (Other Refereed National Journals)

- **Ceramic industry wastewater treatment by chemical coagulation process: a statistical optimization of operating parameters**

SARI ERKAN H.

Sakarya University Journal of Science, vol.23, pp.233-243, 2019 (Other Refereed National Journals)

- **Calcium removal from calcium rich paper mill wastewater by microbial CaCO₃ precipitation**

SARI ERKAN H., ENGİN G.

Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, pp.352-363, 2019 (Other Refereed National Journals)

- **Kaya Gazı Ekstraksiyonu ve Kaya Gazı Üretiminden Kaynaklanan Atıksuların Arıtımı**

SARI ERKAN H., BAKARAKI TURAN N., ENGİN G.

Akademik Platform Mühendislik ve Fen Bilimleri Dergisi, vol.7, pp.1-9, 2019 (Other Refereed National Journals)

Books & Book Chapters

- **Fouling control in MBR in a sustainable perspective**

SARI ERKAN H., BAKARAKI TURAN N., ENGİN G.

in: Current Developments in Biotechnology and Bioengineering Advanced Membrane Separation Processes for

Sustainable Water and Wastewater Management - Case Studies and Sustainability Analysis, Giorgio Mannina, Ashok Pandey, Christian Larroche, How Yong Ng, Huu Hao Ngo, Editor, Elsevier, pp.21-57, 2020

- **Membrane Bioreactors for Wastewater Treatment**

SARI ERKAN H., Nouha B. T. , ENGİN G.

in: COMPREHENSIVE ANALYTICAL CHEMISTRY Fundamentals of Quorum Sensing, Analytical Methods and Applications in Membrane Bioreactors, Dotse Selali Chormey, Sezgin Bakirdere, Nouha Bakaraki Turan, Güleda Önkal Engin, Editor, Elsevier Science, Oxford/Amsterdam, pp.151-200, 2018

Refereed Congress / Symposium Publications in Proceedings

- **Biodiesel Wastewater Treatment by Electrocoagulation using Aluminum and Graphite Electrodes**

SARI ERKAN H.

4th Eurasian Conference on Civil and Environmental Engineering (ECOCEE), 17 - 18 June 2019, pp.198-202

- **Treatment of Industrial Wastewater by Electrocoagulation Process Using Copper Electrode: optimization with response surface methodology (RSM),**

SARI ERKAN H., ÖDEN M. K.

4th International Conference on Civil Environmental, Geology and Mining Engineering (ICOCEM- Trabzon 2019), 20-22 April 2019, Turkey, Trabzon, Turkey, 20 - 22 April 2019, pp.1100-1118

- **MICROPOLLUTANTS IN THE AQUATIC ENVIRONMENT AND THEIR REMOVAL IN MEMBRANE BIOREACTORS**

ENGİN G., ÇAĞLAK A., SARI ERKAN H., ADİLLER A.

Linking Water Security to Sustainable Development Goals, 29 August - 01 September 2018, pp.115-121

- **SHALE GAS WASTEWATER TREATMENT BY CHEMICAL AND ELECTRO-CHEMICAL PROCESSES**

BAKARAKI TURAN N., SARI ERKAN H., ENGİN G.

5. Ulusal Su Kongresi, Afyon, Turkey, 29 October - 01 November 2018

- **Shale gas extraction by hydraulic fracturing and flowback water treatment technologies: A review**

SARI ERKAN H., ENGİN G., BAKARAKI TURAN N.

4th International Conference on Recycling and Reuse, 24 - 26 October 2018

- **Activated Sludge Rheological Properties in the Treatment of Different Wastewaters in Submerged Membrane Bioreactor**

SARI ERKAN H., Bakaraki N., ENGİN G.

EurAsia Waste Management Symposium, 2 - 04 May 2018

- **Investigation of the Effect of C/N Ratio and Sludge Age on the Microbial Community in MBR Systems**

SARI ERKAN H., Bakaraki N., ENGİN G.

EurAsia Waste Management Symposium, 2 - 04 May 2018

- **Turbidity removal of ceramic industry wastewater using chemical coagulation process**

SARI ERKAN H., ALICIOĞLU E., ENGİN G.

3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018

- **Recent Advances for Mitigation of Membrane Fouling in Membrane Bioreactors**

SARI ERKAN H., ENGİN G.

3. International Conference on Civil and Environmental Engineering, 24 - 27 April 2018

- **Mevcut Evsel Atıksu Arıtma Tesislerinin Membran Biyoreaktör Teknolojisi Kullanılarak Yenilenmesi ve İyileştirilmesi**

SARI ERKAN H., ENGİN G.

4th International Water Congress, 2 - 04 November 2017, pp.44

- **Sinyal sönmüleme (Quorum quenching): MBR'lerde biyofilm oluşumunu azaltmak için yeni bir yöntem**

BAKARAKI TURAN N., SARI ERKAN H., ENGİN G.

MEMTEK 2017 5. ULUSAL MEMBRAN TEKNOLOJİLERİ VE UYGULAMALARI SEMPOZYUMU, İstanbul, Turkey, 21 - 23 September 2017, pp.49

- **The effect of SRT on biodegradation of municipal wastewater with low COD/TKN ratio in a submerged MBR**

ERKAN H., ENGİN G.

EUROMED 2017-Desalination for Clean Water and Energy: Cooperation around the World 9–12 May 2017, Tel

Aviv, Israel, Tel-Aviv, Israel, 09 May 2017, pp.66-67

- **The effect of SRT on biodegradation of municipal wastewater with low COD/TKN ratio in a submerged MBR**
SARI ERKAN H., ENGİN G.
EUROMED 2017-Desalination for Clean Water and Energy: Cooperation around the World, Tel-Aviv-Yafo, Israel, 9 - 12 May 2017
- **Calcium Removal from Paper Mill Wastewater by Microbial Carbonate Precipitation: Pre-treatment for Submerged Membrane Bioreactor**
SARI ERKAN H., ENGİN G., ALPCAN R.
International Conference on Civil and Environmental Engineering-2017, NEVŞEHİR, Nevşehir, Turkey, 8 - 10 May 2017
- **Membrane Bioreactor (MBR) Technology for Wastewater Treatment: Approaches to Membrane Fouling Control**
HASNINE M. T. , SARI ERKAN H., ENGİN G.
International Conference on Civil and Environmental Engineering-2017, NEVŞEHİR, Nevşehir, Turkey, 8 - 10 May 2017
- **Membrane Bioreactor Technology for Industrial Wastewater Treatment**
SARI ERKAN H., ENGİN G., GÜNALP G.
International Workshop- MBR for the Next Generation 2016, İstanbul, Turkey, 10 May 2016
- **Activated Sludge Characteristics in a Lab scale Submerged Membrane Bioreactor at Different SRT Values**
SARI ERKAN H., GUNALP G., İNCE M., ENGİN G.
EURASIA 2016 Waste Management Symposium, 2 - 04 May 2016
- **Environmental Mineralogical and Geotechnical Investigations of Anaerobically Digested Dewatered Sewage Sludge**
VARANK G., DEMİR A., ÖZÇOBAN M. Ş. , YAZICI GÜVENÇ S., SARI ERKAN H.
EURASIA 2016 WASTE MANAGEMENT SYMPOSIUM, İstanbul, Turkey, 2 - 04 May 2016, pp.1038-1044
- **Quorum Quenching For Biofilm Formation Prevention**
NOUHA B., ENGİN G., SARI ERKAN H., DOTSE SELALİ C., BAKIRDERE S.
EURASIA 2016 Waste Management Symposium, 2 - 04 May 2016
- **Aluminum Electrocoagulation with Peroxide Applied to Paper Industry Wastewater**
VARANK G., DEMİR A., KASAP T., YAZICI S., SARI ERKAN H.
EURASIA 2016 Waste Management Symposium, 2 - 04 May 2016
- **Mineralogical and Geotechnical Investigations of Anaerobically Digested Dewatered Sewage Sludge**
Demir A., Özçoban M. Ş. , Yazıcı Güvenç S., ERKAN H.
EURASIA 2016 Waste Management Symposium, 01 May 2016
- **Aluminum Electrocoagulation with Peroxide Applied to Paper Industry Wastewater**
DEMİR A., Kasap T., Yazıcı Güvenç S., Sarı Erkan H.
Eurasia 2016 Waste Management Symposium, 01 May 2016
- **Activated sludge rheology in a laboratory scale submerged membrane bioreactor Effect of sludge retention time**
SARI ERKAN H., GÖRKEM G., ENGİN G., İNCE M.
The International Conference On Science, Ecology And Technology I, 25 - 28 August 2015
- **Membrane Fouling In Submerged Membrane Bioreactors Effect of Activated Sludge Rheology**
ENGİN G., İNCE M., SARI ERKAN H., BİLGİLİ M. S. , İNCE E., KULİL B., ÇAĞLAK A.
EURASIA 2014 Waste Management Symposium, 28 - 30 April 2014
- **Textile Sludge Dewatering by Chemical and Electrochemical Methods**
APAYDIN Ö., SARI ERKAN H.
Conference on Recycling and Reuse, 4 - 06 June 2012, pp.347
- **Treatability of Diluate Solution from Electrodialysis Process by Aerobic Sequencing Batch Reactor**
International Conference on Recycling and Reuse
SARI ERKAN H., İLHAN F., YAZICI S., ALTUNTAŞ K., APAYDIN Ö.
International Conference on Recycling and Reuse., 4 - 06 June 2012

- **Fouling of Ion Exchange Membranes in Electrodialysis Process for Recovery of Leachate Compounds**
YAZICI S., İLHAN F., SARI ERKAN H., ALTUNTAŞ K., KURT U.
Euraisa Waste Management Symposium, 10 - 11 November 2011
- **Treatment of Bilge Water By Electrocoagulation Electroflotation Process Optimization With Response Surface Method**
ALTUNTAŞ K., İLHAN F., YAZICI S., SARI ERKAN H., KURT U.
Euraisa Waste Management Symposium, 10 - 11 November 2011

Supported Projects

Sarı Erkan H., Engin G., Project Supported by Higher Education Institutions, BATIK MEMBRAN BİYOREAKTÖRDE FARKLI C N ORANLARININ MEMBRAN KİRLENMESİNE ETKİSİ, 2013 - 2016

Engin G., İnce M., İnce E., Bilgili M. S. , Bayramoğlu M. R. , TUBITAK Project, Membran Biyoreaktörlerde EPS nin Membran Kirlenmesi Üzerine Etkisinin Reolojik Parametreler ile Belirlenmesi, 2013 - 2016

Citations

Total Citations (WOS):133

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