Res. Asst. ELİF DURNA PİŞKİN

Personal Information

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Biography

Elif DURNA PISKIN got her bachelors' degree in the Environmental Engineering Department at Kocaeli University, Kocaeli/Turkey in 2014, and her master degree in the Environmental Engineering Department at Kocaeli University, Kocaeli/Turkey in 2018. She is currently a PhD candidate in the Environmental Engineering Department at Kocaeli University. She is an academic member of the Environmental Engineering Department at Kocaeli University . Her major areas of interests are: Advanced Oxidation Techniques, Experimental Design Techniques, Membrane Treatment Methods and Microbial Fuel cells.

Research Areas

Environmental Engineering

Academic Titles / Tasks

Research Assistant, Kocaeli University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği Bölümü, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Selection of the most suitable pretreatment method by PROMETHEE for baker's yeast production wastewater in Microbial Fuel Cell**
DURNA PİŞKİN E., GENÇ N.
Journal of Chemical Technology and Biotechnology, vol.99, no.2, pp.540-550, 2024 (SCI-Expanded)

II. **Eco-sustainable paper wastewater management by water-resource recovery and concentrate minimization using a membrane oxidation reactor and membrane distillation system**
Dogan E. C., DURNA E., NARCI A. O., KIRIL MERT B., Yakin S. T., Demirozlu T. N., Atasoy M. S., AYDINER C.
ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY, vol.9, no.12, pp.3398-3416, 2023 (SCI-Expanded)

III. **Optimization of Synergistic Radical-Based Processes for the Treatment of Membrane Leachate Concentrate: Selection of the Most Suitable Process by PROMETHEE Approach**
GENÇ N., Durna Pişkin E., Kacıra E.
Water, Air, and Soil Pollution, vol.234, no.4, 2023 (SCI-Expanded)

IV. **Multi response optimization of waste activated sludge oxidation and azo dye reduction in microbial fuel cell**

DURNA PİŞKİN E., GENÇ N.
ENVIRONMENTAL TECHNOLOGY, 2023 (SCI-Expanded)

V. **Regeneration of diclofenac-spent granular activated carbon by sulphate radical based methods: multi-response optimisation of adsorptive capacity and operating cost**
DURNA E., Erkisi E., GENÇ N.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.102, no.16, pp.4695-4709, 2022 (SCI-Expanded)

VI. **Optimization of ZVAl based oxidation and reduction process conditions: Selection of the most suitable process by multiple-criteria decision-making approach**
GENÇ N., Piskin E., Aydin S.
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.159, pp.605-615, 2022 (SCI-Expanded)

VII. **The preference of the most appropriate radical-based regeneration process for spent activated carbon by the PROMETHEE approach**
GENÇ N., DURNA E., Kacira E.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.4, pp.5240-5255, 2022 (SCI-Expanded)

VIII. **Fenton and photo-Fenton processes integrated with submerged ultrafiltration for the treatment of pulp and paper industry wastewater**
Dogan E., Kilicoglu O., NARCI A. O., KIRIL MERT B., DURNA E., Akbacak U. A., AYDINER C.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.9, no.5, 2021 (SCI-Expanded)

IX. **Application of a multiple criteria analysis for the selection of appropriate radical based processes in treatment of car wash wastewater**
DURNA E., GENÇ N.
ENVIRONMENTAL ENGINEERING RESEARCH, vol.26, no.2, 2021 (SCI-Expanded)

X. **Optimization of the adsorption of diclofenac by activated carbon and the acidic regeneration of spent activated carbon**
GENÇ N., DURNA E., Erkisi E.
WATER SCIENCE AND TECHNOLOGY, vol.83, no.2, pp.396-408, 2021 (SCI-Expanded)

XI. **Response Surface Modeling and Optimization of Microwave-Activated Persulfate Oxidation of Olive Oil Mill Wastewater**
GENÇ N., DURNA E., Cicigun H. K. K.
CLEAN-SOIL AIR WATER, vol.48, no.1, 2020 (SCI-Expanded)

XII. **Simultaneous optimization of treatment efficiency and operating cost in leachate concentrate degradation by thermal-activated persulfate catalysed with Ag (I): comparison of microwave and conventional heating**
GENÇ N., DURNA E.
JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, vol.53, no.3, pp.155-170, 2019 (SCI-Expanded)

XIII. **Removal of Bisphenol from Aqueous Solution by Surfactant-Modified Bentonite**
GENÇ N., DURNA E., Kilicoglu O.
JOURNAL OF WATER CHEMISTRY AND TECHNOLOGY, vol.41, no.4, pp.236-241, 2019 (SCI-Expanded)

XIV. **Removal of metribuzin by sulfate radical-based photooxidation: multi-objective optimization by central composite design**
DURNA E., GENÇ N.
WATER AND ENVIRONMENT JOURNAL, vol.33, no.2, pp.265-275, 2019 (SCI-Expanded)

XV. **Heterogeneous Activation of Persulfate by Graphene Oxide-TiO2 Nanosheet for Oxidation of Diclofenac: Optimization by Central Composite Design**
GENÇ N., DURNA E., GENGEÇ E.
WATER AIR AND SOIL POLLUTION, vol.229, no.10, 2018 (SCI-Expanded)

XVI. **Optimization of operational parameters by Taguchi design for imidacloprid oxidation by microwave-activated persulfate**
GENÇ N., DURNA E.

ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.37, no.5, pp.1632-1637, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. **Electricity Generation by Oxidation of Starch-Containing Waste in Microbial Fuel Cell**
DURNA E., GENÇ N.
Journal of advanced research in natural and applied sciences (Online), vol.9, no.2, pp.291-300, 2023 (Peer-Reviewed Journal)

II. **Energy production from mucilage biomass and reduction of azo dye in microbial fuel cells**
GENÇ N., DURNA PİŞKİN E.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, no.6, pp.650-656, 2023 (ESCI)

III. **Sıfır Değerlikli Alüminyumun Aktive Ettiği Persülfat ile Reactive Yellow 145'in oksidasyonu: Proses şartlarının optimizasyonu**
GENÇ N., DURNA E., Aydın Ş.
Karadeniz Fen Bilimleri Dergisi, vol.11, no.2, pp.613-628, 2021 (Peer-Reviewed Journal)

IV. **Lastik üretiminden kaynaklanan yüzey aktif madde içeren atık suların koagülasyon bazlı arıtma alternatiflerinin PROMETHEE yaklaşımı ile değerlendirilmesi**
DURNA E., GENÇ N.
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.10, no.1, pp.23-32, 2021 (Peer-Reviewed Journal)

V. **Ti-Bazlı Metal Oksit Kaplanmış Elektrot ile Reaktif Boyar Maddenin Anodik Oksidasyonu: Proses Şartlarının Optimizasyonu**
GENÇ N., DURNA E.
El-Cezerî Fen ve Mühendislik Dergisi, vol.8, no.2, pp.951-961, 2021 (Scopus)

VI. **Marmara Denizi Yüzeyinden Toplanan Müsilaj Biyokütlesinin Suyunun Giderilmesi: Koagülasyon ve Santrifüj Proseslerinin Optimizasyonu**
GENÇ N., DURNA E., SAYIN F. E.
Aksaray University Journal of Science and Engineering, vol.5, no.2, pp.138-157, 2021 (Peer-Reviewed Journal)

VII. **Determination of the Most Suitable Disposal Option in the Management of End of Life Tires in Turkey by PROMETHEE and Fuzzy PROMETHEE Method**
DURNA E., Koz G., GENÇ N.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.4, pp.915-927, 2020 (ESCI)

VIII. **Sızıntı suyu membran konsantre akımının yönetiminde en uygun metodun analitik hiyerarşi prosesi ile belirlenmesi**
Genç N., Durna E.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.26, no.3, pp.488-495, 2020 (ESCI)

IX. **Kağit Atiksularindan Bütünleşik Membran Sistemi Ile Su Geri Kazanimi Ve Konsantre Atik Minimizasyonu**
AYDINER C., CAN DOĞAN E., KIRIL MERT B., NARCI A. O., DURNA E., Akbacak U. A.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.21, no.2, 2017 (Peer-Reviewed Journal)

X. **Determination of nanofiltration membranes for reuse of paper mill industry wastewater**
Dogan E. C., Aydiner C., Mert B. K., NARCI A. O., KILIÇOĞLU O., DURNA E., AKBACAK U. A.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, no.3, pp.279-287, 2017 (ESCI)

XI. **Kağıt Atıksularından Bütünleşik Membran Sistemi İle Su Geri Kazanımı ve Konsantre Atık Minimizasyonu**
AYDINER C., CAN DOĞAN E., KIRIL MERT B., NARCI A. O., DURNA E., Akbacak U. A.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.21, pp.252-260, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Şeker Pancarı Melasından Karanlık Fermentasyon ile Hidrojen Üretiminde ÖnArıtım Metetlarının Etkisi**
DURNA E., KACIRA E., GENÇ N.
13,Ulusal, 1. Uluslararası Çevre Mühendisliği Kongresi, 10 - 12 October 2019

II. **Araç Yıkama Atıksularının Ozon Destekli Elektrokoagülasyon ile Arıtılabilirliğininİncelenmesi**
DURNA E., ERKİŞİ E., DERECİ P., DEMİR Ö., GENÇ N.
13. Ulusal, 1. Uluslararası Çevre Mühendisliği Kongresi, 10 - 12 October 2019

III. **Removal of Diclofenac from Aqueous Solution by Microwave Enchanced Persulfate Oxidation: Optimization Using Taguchi Design**
GENÇ N., DURNA E.
4TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY(ICOEST), 19 - 23 September 2018

IV. **Microwave Assisted Sludge Disintegration: Optimization of Operating Parameters**
DURNA E., GENÇ N.
4TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY (ICOEST), 19 - 23 September 2018

V. **Eco-Innovative Industrial Wastewater Treatment System for Sustainable Water Management Based on Zero Liquid Discharge in Paper Industry**
CAN DOĞAN E., NARCI A. O., DURNA E., YATMAZ H. C., TOPÇU S., YILMAZ T. N., AYDINER C., AKNAR M.
3rd International Conference on Integrated Environmental Management for Sustainable Development, Sousse, Tunisia, 2 - 05 May 2018

VI. **Removal of Metribuzin from Aqueous Solution by Sulfate Radical Based Photooxidation Process**
DURNA E., GENÇ N.
3. INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING (ICOCEE), 24 - 27 April 2018

VII. **Treatment of Olive Mill Wastewater by Microwave Enhanced Persulfate Oxidation,**
KAYAPINAR K., DURNA E., GENÇ N.
3. INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING (ICOCEE), 24 - 27 April 2018

VIII. **Activated persulfate oxidation for the treatment of concentrated leachate from membrane process**
GENÇ N., DURNA E.
3rd International Conference on Environmental Science and Technology, Budapest, Hungary, 19 - 23 October 2017

IX. **Optimization of operational parameters by Taguchi design for imidacloprid oxidation by Ultraviolet (UV) light -activated persulfate**
DURNA E., GENÇ N.
3rd International Conference on Environmental Science and Technology, 19 - 23 October 2017

X. **Kâğıt Sanayinde Sıfır Sıvı Deşarjına Dayalı Sürdürülebilir Su Yönetimi için Eko-Yenilikçi Endüstriyel Atıksu Arıtma Sistemi**
AYDINER C., CAN DOĞAN E., YATMAZ H. C., DURNA E., TOPÇU S., YILMAZ T. N., AKNAR M., NARCI A. O.
5. Ulusal Membran Teknolojileri ve Uygulamaları Sempozyumu, İstanbul, Turkey, 21 - 23 September 2017, pp.71

XI. **Biohydrogen production from molasses Effect of photooxidation to molasses**
GENÇ N., ÖZBAY İ., DURNA E.
International Conference on Environmental Science and Technology, Belgrade, Serbia And Montenegro, 28 September - 02 October 2016

XII. **Determination of appropriate technology for reuse of paper industry wastewater**
CAN DOĞAN E., NARCI A. O., YATMAZ H. C., DURNA e., AKNAR m. s., TOPÇU s., YILMAZ t. n., AYDINER C.
2nd International Conference on Environmental Science and Technology (ICOEST), 28 September - 02 October 2016

XIII. **KAĞIT ENDÜSTRİSİ ATIKSULARININ FENTON VE FOTOFENTON PROSESLERİ İLE OPTİMUM ARITILABİLİRLİĞİNİN ARAŞTIRILMASI**
CAN DOĞAN E., AYDINER C., KIRIL MERT B., NARCI A. O., KILIÇOĞLU Ö., AKBACAK U. A., DURNA E.

11. ULUSAL ÇEVRE MÜHENDİSLİĞİ KONGRESİ, Turkey, 15 - 17 October 2015

Supported Projects

GENÇ N., DURNA PİŞKİN E., Project Supported by Higher Education Institutions, Mikrobiyal yakıt hücresinde gıda endüstrisi atıksu arıtımı ve abiyotik koşullarda nitrat giderimi: Oksidasyon indirgenme ve elektrik üretimi için proses optimizasyonu, 2023 - Continues
GENÇ N., DURNA E., Project Supported by Higher Education Institutions, Mikrobiyal Yakıt Hücrelerinde Atık Aktif Çamurun Anaerobik Stabilizasyonu ve Elektrik Üretim Potansiyelinin Değerlendirilmesi, 2021 - 2023
GENÇ N., DURNA E., Project Supported by Higher Education Institutions, İlaç etken maddesi ile doymuş aktif karbonun kimyasal rejenerasyon proseslerinin değerlendirilmesi, 2021 - 2021
GENÇ N., DURNA E., Project Supported by Higher Education Institutions, İbuprofen Farmasötiğinin Elektro-oksidasyon Yöntemleri ile Arıtımı, 2020 - 2021
GENÇ N., DURNA PİŞKİN E., Project Supported by Higher Education Institutions, ARAÇ YIKAMA ATIKSULARININ OZON DESTEKLİ ELEKTROKOAGÜLASYON PROSESİ İLE ARITIMI VE YENİDEN KULLANIMI, 2018 - 2020

Metrics

Publication: 42
Citation (WoS): 100
Citation (Scopus): 103
H-Index (WoS): 7
H-Index (Scopus): 6

Non Academic Experience

PAKMAYA