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Education Information

Doctorate, Ondokuz Mayıs University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey 1993 - 1999

Postgraduate, Ondokuz Mayıs University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey 1989 - 1992

Undergraduate, Ondokuz Mayıs University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey 1985 - 1989

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Environmental Engineering, Environmental Sciences, Environmental Chemistry, Environmental Microbiology, Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği, 2016 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği, 2008 - 2010

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği, 2000 - 2008

Expert, Kocaeli University, Mühendislik Fakültesi, Çevre Mühendisliği, 1994 - 2000

Research Assistant, Ondokuz Mayıs University, Faculty Of Engineering, Department Of Environmental Engineering, 1991 - 1992

Academic and Administrative Experience

Kocaeli Üniversitesi, Kandıra Meslek Yüksekokulu, 2012 - 2015

Kocaeli Üniversitesi, Kandıra Meslek Yüksekokulu, Finans Bankacılık Ve Sigortacılık Bölümü, 2012 - 2015

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. Evaluation of environmental performance and selection of the most suitable system for MFCs with different electron acceptors by life cycle assessment and PROMETHEE approach.
Çankaya S., Durna Pişkin E., Genç N.
ENVIRONMENTAL SCIENCE: WATER RESEARCH & TECHNOLOGY, vol.10, no.3, pp.729-742, 2024 (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., Kacira 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. 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)
- IX. 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)
- X. 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)
- XI. 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)
- XII. Removal of Bisphenol from Aqueous Solution by Surfactant-Modified Bentonite
GENÇ N., DURNA E., Kılıcoglu O.
JOURNAL OF WATER CHEMISTRY AND TECHNOLOGY, vol.41, no.4, pp.236-241, 2019 (SCI-Expanded)
- XIII. 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)
- XIV. 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)
- XV. 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)
- XVI. Multi-Response Optimization of Process Parameters for Imidacloprid Removal by Reverse Osmosis Using Taguchi Design
GENÇ N., DOGAN E., NARCI A. O., BICAN E.
WATER ENVIRONMENT RESEARCH, vol.89, no.5, pp.440-450, 2017 (SCI-Expanded)
- XVII. The use of output-dependent data scaling with artificial neural networks and multilinear regression for modeling of ciprofloxacin removal from aqueous solution
Yurtsever U., DOGAN E., GENÇ N.
JOURNAL OF WATER REUSE AND DESALINATION, vol.7, no.1, pp.25-36, 2017 (SCI-Expanded)
- XVIII. Removal of Bisphenol A aqueous solution using surfactant-modified natural zeolite: Taguchi's experimental design, adsorption kinetic, equilibrium and thermodynamic study
GENÇ N., KILICOGLU O., NARCI A. O.
ENVIRONMENTAL TECHNOLOGY, vol.38, no.4, pp.424-432, 2017 (SCI-Expanded)
- XIX. Photocatalytic activities of polyaniline-modified TiO₂ and ZnO under visible light: an experimental and modeling study
Özbay B., Genç N., Özbay İ., Baghaki B., Zor S.
Clean Technologies and Environmental Policy, vol.18, pp.2591-2601, 2016 (SCI-Expanded)
- XX. REMOVAL OF ANTIBIOTIC CIPROFLOXACIN HYDROCHLORIDE FROM WATER BY KANDIRA STONE: KINETIC MODELS AND THERMODYNAMIC
GENÇ N.
GLOBAL NEST JOURNAL, vol.17, no.3, pp.498-507, 2015 (SCI-Expanded)
- XXI. Adsorption kinetics of the antibiotic ciprofloxacin on bentonite, activated carbon, zeolite, and pumice
GENÇ N., DOGAN E.
DESALINATION AND WATER TREATMENT, vol.53, no.3, pp.785-793, 2015 (SCI-Expanded)
- XXII. Bentonite for ciprofloxacin removal from aqueous solution
GENÇ N., Dogan E., Yurtsever M.
WATER SCIENCE AND TECHNOLOGY, vol.68, no.4, pp.848-855, 2013 (SCI-Expanded)
- XXIII. Heat Production Measurement of Activated Sludge by Calorimetry
GENÇ N., YONSEL Y. S.
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.22, no.4, pp.459-465, 2008 (SCI-Expanded)
- XXIV. Evaluation by respiration measurements (OTR, CTR and RQ) of the biological activity in sludge digestors operated under microaerobic conditions
GENÇ N., YONSEL Y. S.
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.21, no.2, pp.163-168, 2007 (SCI-Expanded)
- XXV. Photooxidation: A decolorization procedure and a pre-treatment step for biodegradation of reactive

- azo dye**
GENÇ N., Can-Dogan E.
POLISH JOURNAL OF ENVIRONMENTAL STUDIES, vol.15, no.1, pp.73-79, 2006 (SCI-Expanded)
- XXVI. Improvement of the wastewater biodegradability by means of photocatalytic and wet oxidation processes in the presence of hydrogen peroxide**
GENÇ N., ARSLAN A., Can-Dogan E.
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.19, no.4, pp.391-396, 2005 (SCI-Expanded)
- XXVII. Photocatalytic Oxidation of a Reactive Azo Dye and Evaluation of the Biodegradability of Photocatalytically Treated and Untreated Dye**
GENÇ N.
Water Sa, vol.30, pp.399-405, 2004 (SCI-Expanded)
- XXVIII. Photocatalytic oxidation process as a pretreatment step in improvement of the biodegradability**
Can E., GENÇ N.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.13, no.4, pp.312-316, 2004 (SCI-Expanded)
- XXIX. Investigation of organic nitrogen and carbon removal in the aerobic digestion of various sludges**
GENÇ N., YONSEL Y. S., Dagasan L., ONAR A. N.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.80, no.1, pp.97-106, 2002 (SCI-Expanded)
- XXX. Wet Oxidation A Pre Treatment Procedure for Sludge**
GENÇ N., YONSEL Y. S., LEVENT D., ONAR A. N.
Waste Management, vol.22, pp.611, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **Microbial fuel cells in electricity generation with waste treatment: Alternative electron acceptors**
Durna Pişkin E., Genç N.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.42, no.1, pp.273-288, 2024 (ESCI)
- II. **Innovative Approaches in Spent Activated Carbon Regeneration**
Genç N., Kacira E.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.12, no.1, pp.279-295, 2024 (Peer-Reviewed Journal)
- III. **Optimization of Electro-Oxidation Process Assisted by S2O82-, H2O2 and O3 Using Graphite Cathode and Multiple Metal Oxide Coated Ti Anodes**
GENÇ N., DURNA PİŞKİN E.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGİSİ, 2023 (ESCI)
- IV. **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)
- V. **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 BİLİMLERİ DERGİSİ, no.6, pp.650-656, 2023 (ESCI)
- VI. **Sıfır Değerlikli Alüminyumun Aktive Ettiği Persülfat ile Reactive Yellow 145'in oksidasyonu: Proses şartlarının optimizasyonu**
GENÇ N., DURNA E., Aydin S.
Karadeniz Fen Bilimleri Dergisi, vol.11, no.2, pp.613-628, 2021 (Peer-Reviewed Journal)
- VII. **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)
- VIII. **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)
- IX. 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)
- X. 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 DERGİSİ, vol.23, no.4, pp.915-927, 2020 (ESCI)
- XI. 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)
- XII. Improvement of the Overall Biodegradability of Ciprofloxacin by Pre-treatment with Photocatalytic Oxidation of Wastewaters**
GENÇ N.
ASIAN JOURNAL OF WATER ENVIRONMENT AND POLLUTION, vol.13, no.4, pp.75-81, 2016 (ESCI)
- XIII. Fermentative Hydrogen Production in Batch Experiments Using Molasses Potato Processing Industry Wastewater and Chocolate Waste Influence of Acidic Hydrolization**
GENÇ N., ÖZBAY İ.
Asian Journal Of Chemistry, vol.27, pp.2184-2188, 2015 (Scopus)
- XIV. Fermentative Hydrogen Production in Batch Experiments Using Molasses Potato Processing Industry Wastewater and Chocolate Waste Influence of Acidic Hydrolyzation**
GENÇ N., ÖZBAY İ.
Asian Journal Of Chemistry, vol.27, pp.2184-2188, 2015 (Scopus)
- XV. Atıkların Biyohidrojen Üretim Potansiyellerinin Değerlendirilmesi**
GENÇ N.
Pamukkale Üniversitesi, Mühendislik Bilimleri Dergisi, 2011 (Peer-Reviewed Journal)
- XVI. Biohydrogen Production from Waste Sludge (Atık Arıtma Çamurlarından Biyohidrojen Üretimi)**
GENÇ N.
Yıldız Teknik Üniversitesi, sigma Mühendislik ve Fen Bilimleri dergisi, vol.28, 2010 (Peer-Reviewed Journal)
- XVII. Fermentatif Biyohidrojen Üretim Proseslerinde Hidrojen Veriminin Geliştirilmesindeki Yaklaşımalar**
GENÇ N.
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.26, pp.225-239, 2010 (Peer-Reviewed Journal)
- XVIII. Atık Arıtımında Islak Oksidasyon Prosesinin Uygulanması**
GENÇ N., CAN DOĞAN E.
Su Kirlenmesi Kontrolü Dergisi, vol.12, no.1, pp.41-49, 2004 (Peer-Reviewed Journal)
- XIX. Sulu Ortamlardan Amonyum İyonlarının Doğal Zeolitlerle Giderimi**
GENÇ N., Kırkı L., ARSLAN A.
Çevre Bilim ve Teknoloji Dergisi, vol.1, no.2, pp.48-53, 2001 (Peer-Reviewed Journal)

Books & Book Chapters

- I. Treatment and Minimization of Waste in Baker's Yeast Industry**
CAN DOĞAN E., ARSLAN A., GENÇ N., DAĞAŞAN L., Hung Y.
in: Waste Treatment in the Biotechnology, Agricultural and Food Industries, Lawrence K. Wang, Mu-Hao Sung Wang, Yung-Tse Hung, Editor, Springer Nature Switzerland AG, pp.391-470, 2022

II. Treatment and Minimization of Waste in Baker's Yeast Industry

CAN DOĞAN E., ARSLAN A., GENÇ N., DAĞAŞAN L., Hung Y.

in: Waste Treatment in the Biotechnology, Agricultural and Food Industries., Wang, L.K., Wang, M.H.S., Hung, Y.T., Editor, Springer, Cham, pp.391-470, 2022

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