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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. **Simultaneous Cd²⁺ and organic matter sorption behavior on various microplastics: Modeling of influencing factors using the Taguchi method**
DURNA PIŞKİN E., CAN DOĞAN E., GENÇ N.
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- II. **Selection of the most suitable pretreatment method by PROMETHEE for baker's yeast production wastewater in Microbial Fuel Cell**
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Journal of Chemical Technology and Biotechnology, vol.99, no.2, pp.540-550, 2024 (SCI-Expanded)
- III. **Evaluation of environmental performance and selection of the most suitable system for MFCs with different electron acceptors by life cycle assessment and PROMETHEE approach.**
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ENVIRONMENTAL SCIENCE: WATER RESEARCH & TECHNOLOGY, vol.10, no.3, pp.729-742, 2024 (SCI-Expanded)
- IV. **Multi response optimization of waste activated sludge oxidation and azo dye reduction in microbial fuel cell**
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- V. **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)
- VI. **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)
- VII. **Optimization of ZVAI 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)
- VIII. **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)
- 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**
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- XI. **Response Surface Modeling and Optimization of Microwave-Activated Persulfate Oxidation of Olive Oil Mill Wastewater**
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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**
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- XIV. **Removal of metribuzin by sulfate radical-based photooxidation: multi-objective optimization by central composite design**
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- 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**
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ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.37, no.5, pp.1632-1637, 2018 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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.
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- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **Heat Production Measurement of Activated Sludge by Calorimetry**
GENÇ N., YONSEL Y. Ş.
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.22, no.4, pp.459-465, 2008 (SCI-Expanded)
- XXV. **Evaluation by respiration measurements (OTR, CTR and RQ) of the biological activity in sludge**

digestors operated under microaerobic conditions

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CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.21, no.2, pp.163-168, 2007 (SCI-Expanded)

- XXVI. **Photooxidation: A decolorization procedure and a pre-treatment step for biodegradation of reactive azo dye**
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POLISH JOURNAL OF ENVIRONMENTAL STUDIES, vol.15, no.1, pp.73-79, 2006 (SCI-Expanded)
- XXVII. **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)
- 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. **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)
- XXX. **Investigation of organic nitrogen and carbon removal in the aerobic digestion of various sludges**
GENÇ N., YONSEL Y. Ş., Dagaşan L., ONAR A. N.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.80, no.1, pp.97-106, 2002 (SCI-Expanded)
- XXXI. **Wet Oxidation A Pre Treatment Procedure for Sludge**
GENÇ N., YONSEL Y. Ş., LEVENT D., ONAR A. N.
Waste Management, vol.22, pp.611, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **Mikrobiyal Yakıt Hücrelerinde PROMETHEE Yaklaşımı ile Uygun Anot Elektrodu Modifikasyonunun Belirlenmesi**
Durna Pişkin E., Genç N.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.11, no.1, pp.116-127, 2024 (Peer-Reviewed Journal)
- II. **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)
- III. **Innovative Approaches in Spent Activated Carbon Regeneration**
Genç N., Kacıra E.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.12, no.1, pp.279-295, 2024 (Peer-Reviewed Journal)
- IV. **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-POLITEKNİK DERGISI, 2023 (ESCI)
- V. **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)
- VI. **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 UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGISI, no.6, pp.650-656, 2023 (ESCI)
- VII. **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)

- VIII. **Marmara Denizi Yüzeyinden Toplanan Müsülaj 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. **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)
- X. **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)
- XI. **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-POLITEKNİK DERGISI, vol.23, no.4, pp.915-927, 2020 (ESCI)
- XII. **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)
- XIII. **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)
- 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. **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)
- XVI. **Atıkların Biyohidrojen Üretim Potansiyellerinin Değerlendirilmesi**
GENÇ N.
Pamukkale Üniversitesi, Mühendislik Bilimleri Dergisi, 2011 (Peer-Reviewed Journal)
- XVII. **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)
- XVIII. **Fermentatif Biyohidrojen Üretim Proseslerinde Hidrojen Veriminin Geliştirilmesindeki Yaklaşımlar**
GENÇ N.
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.26, pp.225-239, 2010 (Peer-Reviewed Journal)
- XIX. **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)
- XX. **Sulu Ortamlardan Amonyum İyonlarının Doğal Zeolitlerle Giderimi**
GENÇ N., Kırılı 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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