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### International Researcher IDs

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### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği, Turkey  
2012 - 2017

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2010 - 2012

Undergraduate, Trakya University, Turkey 2005 - 2009

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Biyoreaktör Depo Sahalarında Nanomalzemelerin Davranışları ve Atıkların Ayrışma Prosesleri Üzerindeki Etkilerinin Araştırılması, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Çevre Mühendisliği Bölümü, 2017

Postgraduate, Elektrodializ Bipolar Membran Proseslerin Tıkanma Mekanizması ve Önleme Çalışmalarının Analizi: Sızıntı Suyu Örneği, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Çevre Mühendisliği Bölümü, 2012

### Research Areas

Environmental Engineering, Environmental Technology, Waste Water Collection and Treatment, Environmental Modeling, Solid Waste Engineering and Management, Water Supply and Treatment, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, 2020 - Continues

Research Assistant PhD, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, 2017 - 2020

Research Assistant, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering,

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Refractory pollutants removal from industrial wastewater by a coupled process of coagulation-flocculation and alternative electrochemical advanced oxidation processes**  
CAN GÜVEN E., Bayat M. E., YAZICI GÜVENÇ S., VARANK G.  
Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.707, 2025 (SCI-Expanded)
- II. **Intensification of adsorptive ceramic ultrafiltration membrane system by nanoclay coating and multivariate optimization of humic acid removal**  
Al-Mutwalli S. A., Taher M. N., Yokus S., CAN GÜVEN E., YAZICI GÜVENÇ S., İmer D. Y., VARANK G.  
Journal of Water Process Engineering, vol.68, 2024 (SCI-Expanded)
- III. **Hybrid and combined electro-oxidation and peroxi-coagulation processes in effective treatment of textile reverse osmosis concentrate**  
YAZICI GÜVENÇ S., Bayat M. E., CAN GÜVEN E., VARANK G.  
Chemical Engineering Science, vol.298, 2024 (SCI-Expanded)
- IV. **Refractory organic matter removal from mature leachate by bipolar electrocoagulation-electrooxidation reactor configurations**  
Ersöz Ö. N., Garazade N., YAZICI GÜVENÇ S., CAN GÜVEN E., VARANK G., DEMİR A.  
Process Safety and Environmental Protection, vol.190, pp.663-677, 2024 (SCI-Expanded)
- V. **Alternative sequential combinations of electrocoagulation with electrooxidation and peroxi-coagulation for effective treatment of adhesive production industry wastewater**  
Boyras B., Unal Yilmaz E., YAZICI GÜVENÇ S., CAN GÜVEN E., VARANK G., DEMİR A.  
Journal of Environmental Management, vol.367, 2024 (SCI-Expanded)
- VI. **Multivariate optimization of organic matter and color removal from textile dyeing industry wastewater by ultraviolet-activated oxidants**  
CAN GÜVEN E., Korkmaz M. Y., YAZICI GÜVENÇ S., VARANK G.  
Journal of Photochemistry and Photobiology A: Chemistry, vol.452, 2024 (SCI-Expanded)
- VII. **Application of environmentally friendly technologies for the management of nanofiltration concentrate from landfill leachate**  
YAZICI GÜVENÇ S., Ozen İ., Binici M., Demiroz B., TÜRK O. K., CAN GÜVEN E., VARANK G.  
Journal of Environmental Chemical Engineering, vol.12, no.3, 2024 (SCI-Expanded)
- VIII. **Sequential electrocoagulation and Fenton/Photo-Fenton processes for the treatment of membrane bioreactor effluent of landfill leachate**  
Kösem E., Ersöz Ö. N., Yılmaz R. N., Babaoğlu D., YAZICI GÜVENÇ S., CAN GÜVEN E., VARANK G.  
Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.689, 2024 (SCI-Expanded)
- IX. **Hydrogen peroxide assisted advanced electrocoagulation for reducing the organic content of leachate nanofiltration concentrate**  
VARANK G., YAZICI GÜVENÇ S., CAN GÜVEN E., Yokus S., Bilgin O. N.  
Journal of Industrial and Engineering Chemistry, vol.132, pp.369-382, 2024 (SCI-Expanded)
- X. **Artificial intelligence methods for modeling gasification of waste biomass: a review**  
Alfarra F., ÖZCAN H. K., Cihan P., ÖNGEN A., GUVENC S. Y., CİNER M. N.  
Environmental Monitoring and Assessment, vol.196, no.3, 2024 (SCI-Expanded)
- XI. **Effective treatment of textile industry wastewater by combined ultraviolet assisted and Fe<sup>2+</sup> catalyzed percarbonate oxidation**  
Unal Yilmaz E., Gundogdu H., Bilgin O. N., Yokus S., TÜRK O. K., YAZICI GÜVENÇ S., CAN GÜVEN E., VARANK G.  
Journal of Dispersion Science and Technology, vol.45, no.8, pp.1585-1598, 2024 (SCI-Expanded)
- XII. **Removal of COD, phenol, and colour from olive mill wastewater by iron-activated persulphate process: multivariate optimisation approach**  
Ates S., Ates E., YAZICI GÜVENÇ S., CAN GÜVEN E., AYDIN S., VARANK G.

International Journal of Environmental Analytical Chemistry, vol.104, no.14, pp.3196-3218, 2024 (SCI-Expanded)

- XIII. **Alternative treatment of olive mill wastewater by combined sulfate radical-based advanced electrocoagulation processes**  
YAZICI GÜVENÇ S., Tunc S.  
Water Environment Research, vol.95, no.12, 2023 (SCI-Expanded)
- XIV. **Biodegradability enhancement and sequential treatment of real chemical industry wastewater by chemical coagulation and Electro-Fenton processes**  
YAZICI GÜVENÇ S., CAN GÜVEN E., ÇİFÇİ D. İ., VARANK G.  
Chemical Engineering and Processing - Process Intensification, vol.194, 2023 (SCI-Expanded)
- XV. **Hybrid treatment of olive mill wastewater by iron-catalyzed percarbonate and peroxymonosulfate oxidation followed by electrooxidation**  
CAN GÜVEN E., Bayrak Ş., Dokuyucu B., YAZICI GÜVENÇ S., VARANK G.  
Journal of Water Process Engineering, vol.54, 2023 (SCI-Expanded)
- XVI. **Efficient treatment of landfill leachate membrane bioreactor effluent through sequential coagulation–flocculation and electrooxidation**  
Bayat M. E., Bilgin O. N., Varank G., Yazıcı Güvenç S., Can Güven E.  
ENVIRONMENTAL SCIENCE: WATER RESEARCH & TECHNOLOGY, no.x, pp.1-22, 2023 (SCI-Expanded)
- XVII. **Advanced electrocoagulation using aluminum electrodes supported by persulfate for the treatment of a high-strength wastewater**  
Yokus S., Bilgin O. N., Unal Yilmaz E., Gundogdu H., Yazıcı Güvenç S., Can Güven E., Varank G.  
Chemical Engineering Research and Design, vol.194, pp.192-210, 2023 (SCI-Expanded)
- XVIII. **Performance evaluation of hybrid electrochemical processes in mature leachate treatment**  
Bilgin O. N., Yokus S., VARANK G., YAZICI GÜVENÇ S., CAN GÜVEN E., DEMİR A.  
Journal of Chemical Technology and Biotechnology, vol.98, no.6, pp.1365-1375, 2023 (SCI-Expanded)
- XIX. **Combination of zero-valent aluminum-acid system and electrochemically activated persulfate oxidation for biologically pre-treated leachate nanofiltration concentrate treatment**  
YAZICI GÜVENÇ S., Ozen İ., Binici M., Yildirim D., CAN GÜVEN E., VARANK G.  
Environmental Pollution, vol.320, 2023 (SCI-Expanded)
- XX. **Pre-coagulated landfill leachate treatment by Electro-oxidation using MMO/Ti, Pt/Ti, and graphite anodes**  
Guvenc S. Y., Daniser Y., Can-Güven E., Varank G., Demir A.  
Environmental Engineering Research, vol.28, no.1, 2023 (SCI-Expanded)
- XXI. **Electrochemically activated persulfate and peroxymonosulfate for furfural removal: optimization using Box-Behnken design**  
Can-Guven E., İLHAN F., ALTUNTAŞ K., YAZICI GÜVENÇ S., VARANK G.  
ENVIRONMENTAL TECHNOLOGY, vol.44, no.9, pp.1251-1264, 2023 (SCI-Expanded)
- XXII. **Photodegradation of oxytetracycline by UV-assisted persulfate and percarbonate processes: kinetics, influencing factors, anion effect, and radical species**  
TÜRK O. K., Adalar G., YAZICI GÜVENÇ S., CAN GÜVEN E., VARANK G., DEMİR A.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, pp.869-883, 2023 (SCI-Expanded)
- XXIII. **Application of the hybrid electrocoagulation–electrooxidation process for the degradation of contaminants in acidified biodiesel wastewater**  
YAZICI GÜVENÇ S., VARANK G., CAN GÜVEN E., Ercan H., Yaman D., Saricam E., TÜRK O. K.  
Journal of Electroanalytical Chemistry, vol.926, 2022 (SCI-Expanded)
- XXIV. **Box-Behnken design-based biodiesel wastewater treatment using sequential acid cracking and electrochemical peroxidation process: Focus on COD, oil-grease and volatile fatty acids removals**  
YAZICI GÜVENÇ S., Cebi A., CAN GÜVEN E., DEMİR A., Ghanbari F., VARANK G.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.39, no.9, pp.2555-2570, 2022 (SCI-Expanded)
- XXV. **Application of combined EO/PMS/Me<sup>2+</sup> process in organic matter and true color removal from paint manufacturing industry wastewater**  
Can Güven E., Yazıcı Güvenç S., İlhan F., Varank G.

- ENVIRONMENTAL RESEARCH, vol.212, 2022 (SCI-Expanded)
- XXVI. **Multivariate Optimization of Cephalexin, Ciprofloxacin, and Clarithromycin Degradation in Medical Laboratory Wastewater by Ozonation**  
Basturk I., VARANK G., Murat-Hocaoglu S., YAZICI GÜVENÇ S., Can-Guven E., Oktem-Olgun E. E., Canli O.  
OZONE-SCIENCE & ENGINEERING, vol.44, no.3, pp.302-316, 2022 (SCI-Expanded)
- XXVII. **Recalcitrant pollutants removal from paper mill wastewater by ferrous ion- and heat- activated persulfate oxidation processes using response surface methodology: a comparison study**  
Guvenc S. Y., Can-Guven E., VARANK G.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.57, no.7, pp.1151-1166, 2022 (SCI-Expanded)
- XXVIII. **Modeling and optimization of syngas production from biomass gasification**  
Varank G., ÖNGEN A., Guvenc S., Ozcan H. K., Ozbas E. E., Can-Guven E.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.19, no.4, pp.3345-3358, 2022 (SCI-Expanded)
- XXIX. **Degradation of oxytetracycline in aqueous solution by heat-activated peroxydisulfate and peroxymonosulfate oxidation**  
Ulucan-Altuntas K., Yazıcı Güvenç S., Can Güven E., İlhan F., Varank G.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, no.6, pp.9110-9123, 2022 (SCI-Expanded)
- XXX. **Persulfate enhanced electrocoagulation of paint production industry wastewater: Process optimization, energy consumption, and sludge analysis**  
Guvenc S. Y., Can-Guven E., VARANK G.  
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.157, 2022 (SCI-Expanded)
- XXXI. **Electro/Fe<sup>2+</sup>/Persulfate Oxidation of Landfill Leachate Nanofiltration Concentrate Using MMO/TiO<sub>2</sub>-Ti Anode: A Kinetic Study**  
YAZICI GÜVENÇ S., CAN GÜVEN E., Cebi A., VARANK G., ÖZKAYA B.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH, vol.15, no.6, pp.959-969, 2021 (SCI-Expanded)
- XXXII. **Comparison of Ozonation and Electro-Fenton Processes for Sodium Azide Removal in Medical Laboratory Wastewater by Using Central Composite Design**  
Basturk I., Murat-Hocaoglu S., VARANK G., Yazici-Guvenc S.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.56, no.17, pp.2951-2966, 2021 (SCI-Expanded)
- XXXIII. **Sequential coagulation and heat activated persulfate-peroxide binary oxidation process for landfill leachate treatment**  
Can-Guven E., Guvenc S. Y., VARANK G.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.42, 2021 (SCI-Expanded)
- XXXIV. **Microwave activated persulfate oxidation of leachate subsequent to optimized chemical coagulation**  
VARANK G., Uykan B., Can-Guven E., Guvenc S.  
DESALINATION AND WATER TREATMENT, vol.228, pp.362-375, 2021 (SCI-Expanded)
- XXXV. **Characterization and Treatment of Medical Laboratory Wastewater by Ozonation: Optimization of Toxicity Removal by Central Composite Design**  
Basturk I., VARANK G., Murat-Hocaoglu S., Yazici-Guvenc S., Oktem-Olgun E. E., Canli O.  
OZONE-SCIENCE & ENGINEERING, vol.43, no.3, pp.213-227, 2021 (SCI-Expanded)
- XXXVI. **Paper mill wastewater treatment by Fe(2+)and heat-activated persulfate oxidation: Process modeling and optimization**  
Can-Guven E., Guvenc S., Kavan N., VARANK G.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.40, no.2, 2021 (SCI-Expanded)
- XXXVII. **Medical laboratory wastewater treatment by electro-fenton process: Modeling and optimization using central composite design**  
Basturk I., VARANK G., Murat Hocaoglu S., YAZICI GÜVENÇ S.  
WATER ENVIRONMENT RESEARCH, vol.93, no.3, pp.393-408, 2021 (SCI-Expanded)
- XXXVIII. **Degradation of refractory organics in concentrated leachate by the Fenton process: Central composite design for process optimization**  
YAZICI GÜVENÇ S., VARANK G.

- FRONTIERS OF ENVIRONMENTAL SCIENCE & ENGINEERING, vol.15, no.1, 2021 (SCI-Expanded)
- XXXIX. **Simultaneous degradation of cephalexin, ciprofloxacin, and clarithromycin from medical laboratory wastewater by electro-Fenton process**  
Basturk I., Varank G., Murat-Hocaoglu S., Yazıcı Güvenç S., Can Güven E., Oktem-Olgun E. E., Canli O.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.9, no.1, 2021 (SCI-Expanded)
- XL. **Electro-activated Persulfate Oxidation of Biodiesel Wastewater Following Acidification Phase: Optimization of Process Parameters Using Box-Behnken Design**  
YAZICI GÜVENÇ S., VARANK G., Cebi A., ÖZKAYA B.  
Water, Air, and Soil Pollution, vol.232, no.1, 2021 (SCI-Expanded)
- XLI. **Concentrated Leachate Treatment by Electro-Fenton and Electro-Persulfate Processes Using Central Composite Design**  
VARANK G., Guvenc S., Dincer K., DEMİR A.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH, vol.14, no.4, pp.439-461, 2020 (SCI-Expanded)
- XLII. **Electro-activated peroxymonosulfate and peroxydisulfate oxidation of leachate nanofiltration concentrate: multiple-response optimization**  
Varank G., Yazici Guvenc S., Demir A.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.17, no.5, pp.2707-2720, 2020 (SCI-Expanded)
- XLIII. **Modeling and optimizing electro-persulfate processes using Fe and Al electrodes for paper industry wastewater treatment**  
VARANK G., YAZICI GÜVENÇ S., DEMİR A., Kavan N., Donmez N., Onen Z. T.  
WATER SCIENCE AND TECHNOLOGY, vol.81, no.2, pp.345-357, 2020 (SCI-Expanded)
- XLIV. **EFFECTS OF PERSULFATE, PEROXIDE ACTIVATED PERSULFATE AND PERMANGANATE OXIDATION ON TREATABILITY AND BIODEGRADABILITY OF LEACHATE NANOFILTRATION CONCENTRATE**  
YAZICI GÜVENÇ S., VARANK G., Demir A.  
ENVIRONMENT PROTECTION ENGINEERING, vol.46, no.3, pp.97-108, 2020 (SCI-Expanded)
- XLV. **Central composite design for the advanced treatment of biologically treated leachate nanofiltration concentrate using zero-valent copper and iron activated persulfate**  
VARANK G., Guvenc S. Y., Çebi A., Güven E. C.  
Desalination and Water Treatment, vol.208, pp.434-447, 2020 (SCI-Expanded)
- XLVI. **Performance of electrocoagulation and electro-Fenton processes for treatment of nanofiltration concentrate of biologically stabilized landfill leachate**  
YAZICI GÜVENÇ S., Dinçer K., VARANK G.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.31, pp.100863, 2019 (SCI-Expanded)
- XLVII. **Optimization of COD removal from leachate nanofiltration concentrate using H<sub>2</sub>O<sub>2</sub>/Fe<sub>2</sub>/heat - Activated persulfate oxidation processes**  
YAZICI GÜVENÇ S.  
Process Safety And Environmental Protection, vol.126, pp.7-17, 2019 (SCI-Expanded)
- XLVIII. **A comparative study of electrocoagulation and electro-Fenton for food industry wastewater treatment: Multiple response optimization and cost analysis**  
VARANK G., Guvenc S. Y., DEMİR A.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.53, no.17, pp.2727-2740, 2018 (SCI-Expanded)
- XLIX. **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 (SCI-Expanded)
- L. **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, no.8, pp.2015-2031, 2017 (SCI-Expanded)
- LI. **Enhancing filterability of activated sludge from landfill leachate treatment plant by applying**

**electrical field ineffective on bacterial life**

Akkaya G. K., Sekman E., Top S., SAGIR E., BİLGİLİ M. S., GUVENC S. Y.

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.24, no.11, pp.10364-10372, 2017 (SCI-Expanded)

- LII. **The impact of nanoparticles on aerobic degradation of municipal solid waste**  
Guvenc S., ALAN B., Adar E., BİLGİLİ M. S.  
WASTE MANAGEMENT & RESEARCH, vol.35, no.4, pp.426-436, 2017 (SCI-Expanded)
- LIII. **The optimization and modeling of PCP wastewater using response surface methodology by electrocoagulation process**  
YAZICI GÜVENÇ S.  
DESALINATION AND WATER TREATMENT, vol.63, pp.34-42, 2017 (SCI-Expanded)
- LIV. **Process optimization via response surface methodology in the treatment of metal working industry wastewater with electrocoagulation**  
Guvenc S., OKUT Y., OZAK M., HAKTANIR B., BİLGİLİ M. S.  
WATER SCIENCE AND TECHNOLOGY, vol.75, no.4, pp.833-846, 2017 (SCI-Expanded)
- LV. **Investigation of Liner Systems in Transport of Organic and Inorganic Contaminants in Sanitary Landfill: A Case Study**  
VARANK G., DEMİR A., Adar E., BİLGİLİ M. S., Top S., Guvenc S. Y., ÖZÇOBAN M. Ş.  
CLEAN-SOIL AIR WATER, vol.45, no.1, 2017 (SCI-Expanded)
- LVI. **Optimization of treatment leachates from young, middle-aged and elderly landfills with bipolar membrane electro dialysis**  
İlhan F., Guvenc S., Avşar Y., Kurt U., Gonullu M. T.  
ENVIRONMENTAL TECHNOLOGY, vol.38, no.21, pp.2733-2742, 2017 (SCI-Expanded)
- LVII. **Municipal Solid Waste Characterization according to Different Income Levels: A Case Study**  
Ozcan H. K., Guvenc S., GUVENC L., Demir G.  
SUSTAINABILITY, vol.8, no.10, 2016 (SCI-Expanded)
- LVIII. **Statistical optimization of process parameters for tannery wastewater treatment by electrocoagulation and electro-Fenton techniques**  
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DESALINATION AND WATER TREATMENT, vol.57, pp.25460-25473, 2016 (SCI-Expanded)
- LIX. **Electrocoagulation of Tannery Wastewater using Monopolar Electrodes: Process Optimization by Response Surface Methodology**  
VARANK G., ERKAN H., YAZICI S., DEMİR A., ENGİN G.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH, vol.8, no.1, pp.165-180, 2014 (SCI-Expanded)
- LX. **EQUILIBRIUM AND KINETIC STUDIES ON THE REMOVAL OF HEAVY METAL IONS WITH NATURAL LOW-COST ADSORBENTS**  
VARANK G., DEMİR A., BİLGİLİ M. S., Top S., Sekman E., Yazici S., Erkan H. S.  
ENVIRONMENT PROTECTION ENGINEERING, vol.40, no.3, pp.43-61, 2014 (SCI-Expanded)
- LXI. **Investigation of Sorption Characteristics of Anaerobically Digested Dewatered Municipal Sewage Sludge**  
Varank G., Demir A., Bilgili M. S., Selin T., Sekman E., Yazıcı S., Sarı Erkan H.  
Environment Protection Engineering, vol.40, pp.119-133, 2014 (SCI-Expanded)
- LXII. **Fuzzy-logic modeling of Fenton's strong chemical oxidation process treating three types of landfill leachates**  
Sari H., Yetilmezsoy K., İlhan F., Yazici S., Kurt U., Apaydın Ö.  
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### Articles Published in Other Journals

1. **Pre-coagulated landfill leachate treatment by synergistic ultraviolet and electro-persulfate process**  
Can Güven E., Yazıcı Güvenç S., Varank G., Demir A.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.42, no.1, pp.252-259, 2024 (ESCI)

- II. **The carbon footprint of a university campus Case study of Yildiz Technical University, Davutpaşa Campus, Turkey.**  
Yazıcı Güvenç S., Canikli S., Can Güven E., Varank G., Akbaş H. E.  
Visions for Sustainability, no.20, pp.1-33, 2023 (Scopus)
- III. **BOX-BEHNKEN DESIGN OPTIMIZATION OF ELECTRO-FENTON/-PERSULFATE PROCESSES FOLLOWING THE ACIDIFICATION FOR TSS REMOVAL FROM BIODIESEL WASTEWATER**  
Yazıcı Güvenç S., Varank G.  
Sigma Journal of Engineering and Natural Sciences, vol.38, pp.1767-1780, 2020 (ESCI)
- IV. **ENERGY CONSUMPTION AND EFFICIENCY IMPROVEMENT OF ELECTRO-ACTIVATED PERSULFATE PROCESSES: OPTIMIZATION BY CCD FOR TOC REMOVAL FROM LEACHATE CONCENTRATE**  
YAZICI GÜVENÇ S., VARANK G., DEMİR A., CAN GÜVEN E.  
Sigma Journal of Engineering and Natural Sciences, vol.38, no.4, pp.1791-1810, 2020 (ESCI)
- V. **Pretreatment of Food Industry Wastewater by Coagulation: Process Modeling and Optimization**  
Yazıcı Güvenç S., Can Güven E.  
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.15, no.3, pp.307-316, 2019 (Peer-Reviewed Journal)
- VI. **Kozmetik Sanayi Atıksularının Elektro-Fenton Yöntemi ile Arıtımında Cevap Yüzey Metodu Kullanılarak Proses Optimizasyonu**  
YAZICI GÜVENÇ S., VARANK G.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, 2019 (Peer-Reviewed Journal)
- VII. **Effect of inorganic salt solutions on consistency limits of kaolinite**  
VARANK G., DEMİR A., YAZICI GÜVENÇ S., ÖZÇOBAN M. Ş.  
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, pp.1-11, 2018 (Peer-Reviewed Journal)
- VIII. **Fluoride removal from aqueous solution by electrocoagulation using aluminium electrodes: Isotherm and kinetic studies**  
YAZICI GÜVENÇ S., VARANK G., DEMİR A.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.6, pp.1130-1134, 2018 (ESCI)
- IX. **Kaolinitin kıvam limitleri üzerine inorganik tuz çözeltilerinin etkileri**  
Varank G., Demir A., Yazıcı Güvenç S., Özçoban M. Ş.  
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, no.1, pp.110-120, 2018 (Peer-Reviewed Journal)
- X. **EFFECT OF TiO<sub>2</sub> AND Ag NANOPARTICLES ON MIGRATION BEHAVIOR OF LEACHATE CONTAMINANTS IN AEROBIC BIOREACTOR LANDFILLS**  
Guvenc S., ALAN B., Adar E., BİLGİLİ M. S.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.34, no.4, pp.493-503, 2016 (ESCI)
- XI. **THE EFFECT OF AG NANOPARTICLES ON LEACHATE CHARACTERISTICS FROM AEROBIC LANDFILL BIOREACTORS**  
Guvenc S., ERTURK O., BİLGİLİ M. S.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.34, no.4, pp.483-492, 2016 (ESCI)

## Books & Book Chapters

- I. **Evaluation of Contaminant Transport Through Alternative Liner Systems from Leachate to Groundwater Using One-Dimensional Mass Transport Model**  
Varank G., Adiller A., Yazıcı Güvenç S., Adar E., Demir A.  
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## Refereed Congress / Symposium Publications in Proceedings

- I. **Yapıştırıcı Kimyasal Üretim Atık Sularının Ardışık Koagülasyon-Elektrokimyasal/Fotokimyasal Proseslerle Arıtımının Araştırılması**  
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- II. **MBR Çıkışı Sızıntı Suyunun Al-Çelik Elektrotlu Elektrokoagülasyon İle Arıtımında Proses Optimizasyonu**  
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- III. **Katı Atık Düzenli Depolama Konusunda WoS Veritabanındaki Yayınların Bibliyometrik Analiz İle İncelenmesi**  
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4. ULUSLARARASI MÜHENDİSLİK BİLİMLERİ VE MULTİDİSİPLİNER YAKLAŞIMLAR KONGRESİ, 3 - 05 November 2022, pp.321-327
- IV. **Elektrokoagülasyon Prosesi İle Zeytin Karasuyundan Organik Madde Gideriminde Peroksidisülfat ve Peroksimonosülfat Oksidantlarının Etkisi**  
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- V. **Zeytin Endüstrisi Atıksuyunun İleri Oksidasyon Prosesleriyle Arıtılması**  
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- VI. **Koagülasyon ile Olgun Sızıntı Suyundan Amonyak Gideriminde Proses Optimizasyonu**  
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- VII. **Electro-peroxydisulfate oxidation of concentrated leachate: Optimization of color removal using CCD**  
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- VIII. **OPTIMIZATION OF COLOR REMOVAL OF LEACHATE NANOFILTRATION CONCENTRATE BY ELECTRO-PEROXYMONOSULFATE OXIDATION PROCESS**  
Dinçer K., Yazıcı Güvenç S., Varank G.  
5. ICNES International Congress on Natural and Engineering Sciences, İstanbul, Turkey, 27 - 30 August 2019, pp.1-10
- IX. **Treatment of Leachate Nanofiltration Concentrate with Advanced Oxidation Processes**  
Kavan N., Dönmez N., Yazıcı Güvenç S., Can Güven E., Varank G.  
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- X. **Statistical Optimization of Process Parameters in Paper Mill Wastewater Treatment by Chemical Coagulation**  
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- XI. **Fouling and cleaning of ion-exchange membranes in electro dialysis with bipolar membrane process during leachate treatment**  
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- XII. **Optimization of Color Removal of Leachate Nanofiltration Concentrate using H<sub>2</sub>O<sub>2</sub>/Fe<sub>2</sub>/Heat - Activated Persulfate Oxidation Processes**



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- XIII. **Kağıt Endüstrisi Atıksularından Elektro-Persülfat Prosesi ile Bulanıklık Gideriminin Optimizasyonu için Merkezi Kompozit Dizayn Yaklaşımının Uygulanması**  
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- XIV. **KAĞIT ENDÜSTRİSİ ATIKSULARINDAN ELEKTRO-PERSÜLFAT PROSESİ İLE BULANIKLIK GİDERİMİNDE CEVAP YÜZEY METODU KULLANILARAK PROSES OPTİMİZASYONU**  
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- XV. **Süt Endüstrisi Atıksularının Fenton ve Elektro-Fenton ile Arıtımında Optimum İşletme Parametrelerinin Belirlenmesi**  
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- XVI. **Düzenli Depolama Sahası Taban Malzemesi olarak Kireç, Alçı ve Çimento ile Modifiye Edilmiş Kaolenin Kullanımı**  
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- XVII. **Determination of Transport Coefficients of Inorganic Contaminants Through Alternative Liner Systems from Leachate to Groundwater Using One-Dimensional Mass Transport Model**  
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- XVIII. **Effect of Landfill Leachate on Geotechnical Properties of Kaolinite Mixed with Additive Materials**  
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- XIX. **Treatment of Tannery Industry Wastewater by Electrocoagulation Process Using Iron Electrodes**  
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- XX. **Gasification of a Vacuum Evaporated Treatment Sludge and Characterization of Syngas**  
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- XXI. **Optimization of Turbidity Removal from Food Industry Wastewater by Electrocoagulation and e-Fenton processes Using Response Surface Method**  
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- XXIV. **The Impact of TiO<sub>2</sub> Nanoparticles on Aerobic Decomposition of Municipal Solid Waste**  
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## Supported Projects

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