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Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Dr), Turkey 1997 - 2003

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Yıl) (Tezli), Turkey 1994 - 1997

Undergraduate, Ondokuz Mayıs University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, Turkey 1990 - 1994

Dissertations

Doctorate, Samsun kentsel katı atıklarının kompostaştırılmasında genleştirilmiş perlit ve doğal zeolitin etkilerinin incelenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Dr), 2003

Postgraduate, Sinop İl Merkezi katı atıklarının incelenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Yıl) (Tezli), 1997

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2016 - Continues

Associate Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2010 - 2016

Assistant Professor, Ondokuz Mayıs University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2004 - 2010

Research Assistant, Ondokuz Mayıs University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 1995 - 2004

Published journal articles indexed by SCI, SSCI, and AHCI

I. Role of different natural materials in reducing nitrogen loss during industrial sludge composting: Modelling and optimization

Aycan Dümenci N., Aydin Temel F., Turan N. G.

Bioresource Technology, vol.385, 2023 (SCI-Expanded)

II. Modelling and optimization of sewage sludge composting using biomass ash via deep neural network

- and genetic algorithm**
- Dogan H., TEMEL F. A., CAĞCAĞ YOLCU Ö., Turan N. G.
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- III. Artificial intelligence and machine learning approaches in composting process: A review**
- TEMEL F. A., CAĞCAĞ YOLCU Ö., Turan N. G.
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- IV. Modeling and optimization of process parameters in co-composting of tea waste and food waste: Radial basis function neural networks and genetic algorithm**
- Yilmaz E. C., TEMEL F. A., CAĞCAĞ YOLCU Ö., Turan N. G.
BIORESOURCE TECHNOLOGY, vol.363, 2022 (SCI-Expanded)
- V. Evaluation of a cascade artificial neural network for modeling and optimization of process parameters in co-composting of cattle manure and municipal solid waste**
- Bayindir Y., CAĞCAĞ YOLCU Ö., TEMEL F. A., Turan N. G.
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- VI. Prediction and optimization of nitrogen losses in co-composting process by using a hybrid cascaded prediction model and genetic algorithm**
- Kabak E. T., CAĞCAĞ YOLCU Ö., TEMEL F. A., Turan N. G.
CHEMICAL ENGINEERING JOURNAL, vol.437, 2022 (SCI-Expanded)
- VII. INVESTIGATION OF COPPER(II), ZINC(II) AND LEAD(II) REMOVAL ONTO EXPANDED PERLITE BY ADSORPTION FROM THE WASTES OF METAL CASTING INDUSTRY: STATISTICAL MODELING AND OPTIMIZATION**
- TEMEL F. A., AVCI E., Turan N. G.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.21, no.5, pp.757-767, 2022 (SCI-Expanded)
- VIII. Identifying the maturity of co-compost of olive mill waste and natural mineral materials: Modelling via ANN and multi-objective optimization**
- Aycan Dumenci N., CAĞCAĞ YOLCU Ö., Aydin Temel F., Turan N. G.
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- IX. Full factorial experimental design of Ni(II) removal from industrial wastewater by adsorption**
- TEMEL F. A., AVCI E., Turan N. G.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.16, no.3, pp.299-319, 2018 (SCI-Expanded)
- X. The use of response surface methodology for modelling of lead (II) removal from industrial waste by pumice and vermiculite**
- TEMEL F. A., Turan N. G., Özgönenel O., Ardalı Y.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.15, no.2, pp.175-189, 2018 (SCI-Expanded)
- XI. Heavy metal removal with pure and biochar rice husks: modelling and optimisation using Box-Behnken design**
- TEMEL F. A., Turan N. G., Özgönenel O., Ardalı Y.
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- XII. Statistical Optimization to Model Ammonia Removal During Co-Composting of Pulp/Paper Mill Sludge and Corn Wastes**
- Aycan N., Turan N. G.
CLEAN-SOIL AIR WATER, vol.44, no.11, pp.1572-1577, 2016 (SCI-Expanded)
- XIII. A modeling study by artificial neural network on ethidium bromide adsorption optimization using natural pumice and iron-coated pumice**
- Heibati B., Rodriguez-Couto S., Özgönenel O., Turan N. G., Aluigi A., Zazouli M. A., Ghozikali M. G., Mohammadyan M., Albadarin A. B.
DESALINATION AND WATER TREATMENT, vol.57, no.29, pp.13472-13483, 2016 (SCI-Expanded)
- XIV. MUNICIPAL SOLID WASTE CHARACTERISTICS AND MANAGEMENT IN SINOP, TURKEY**
- Turan N. G., GÖKKURT BAKİ O., Ergun O. N.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.15, no.1, pp.13-18, 2016 (SCI-Expanded)
- XV. Removal of noxious dye-Acid Orange 7 from aqueous solution using natural pumice and Fe-coated**

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Heibati B., Rodriguez-Couto S., Turan N. G., Özgönenel O., Albadarin A. B., Asif M., Tyagi I., Agarwal S., Gupta V. K. JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.31, pp.124-131, 2015 (SCI-Expanded)

XVI. OPTIMIZATION OF PROCESS PARAMETERS FOR COMPOSTING OF PULP/PAPER MILL SLUDGE WITH HAZELNUT KERNEL USING A STATISTICAL METHOD

Aycan N., Turan N. G., Özgönenel O.

ENVIRONMENT PROTECTION ENGINEERING, vol.40, no.1, pp.127-138, 2014 (SCI-Expanded)

XVII. EFFECTS OF DIFFERENT AGRO-BASED MATERIALS ON COMPOSTING OF PULP/PAPER-MILL SLUDGE

Aycan N., Turan N. G.

ARCHIVES OF ENVIRONMENTAL PROTECTION, vol.40, no.1, pp.33-40, 2014 (SCI-Expanded)

XVIII. Study of Montmorillonite Clay for the Removal of Copper (II) by Adsorption: Full Factorial Design Approach and Cascade Forward Neural Network

Turan N. G., Özgönenel O.

SCIENTIFIC WORLD JOURNAL, vol.2013, 2013 (SCI-Expanded)

XIX. Optimizing copper ions removal from industrial leachate by explored vermiculite-A comparative analysis

Turan N. G., Özgönenel O.

JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.44, no.6, pp.895-903, 2013 (SCI-Expanded)

XX. Prediction of Heavy Metal Removal by Different Liner Materials from Landfill Leachate: Modeling of Experimental Results Using Artificial Intelligence Technique

Turan N. G., Gumusel E. B., Özgönenel O.

SCIENTIFIC WORLD JOURNAL, vol.2013, 2013 (SCI-Expanded)

XXI. The Design and Implementation of Adsorptive Removal of Cu(II) from Leachate Using ANFIS

Turan N. G., Özgönenel O.

SCIENTIFIC WORLD JOURNAL, vol.2013, 2013 (SCI-Expanded)

XXII. Utilizing Natural Liner Materials for Heavy Metal Removal in Simulated Landfill Conditions

Turan N. G., Gumusel E. B.

CLEAN-SOIL AIR WATER, vol.41, no.4, pp.403-410, 2013 (SCI-Expanded)

XXIII. Response Surface Modeling of Cu(II) Removal from Electroplating Waste by Adsorption: Application of BoxBehnken Experimental Design

Turan N. G., Mesci Oktay B., Özgönenel O.

CLEAN-SOIL AIR WATER, vol.41, no.3, pp.304-312, 2013 (SCI-Expanded)

XXIV. Investigation of the Possibility of Copper Removal from Industrial Leachate by Raw and Calcined Phosphogypsum: D-Optimal and Taguchi Designs

Mesci Oktay B., Turan N. G., Özgönenel O.

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XXV. Artificial neural network (ANN) approach for modeling Zn(II) adsorption from leachate using a new biosorbent

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CHEMICAL ENGINEERING JOURNAL, vol.173, no.1, pp.98-105, 2011 (SCI-Expanded)

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Turan N. G., Mesci Oktay B., Özgönenel O.

CHEMICAL ENGINEERING JOURNAL, vol.171, no.3, pp.1091-1097, 2011 (SCI-Expanded)

XXVII. Adsorption of copper and zinc ions on illite: Determination of the optimal conditions by the statistical design of experiments

Turan N. G., Elevli S., Mesci Oktay B.

APPLIED CLAY SCIENCE, vol.52, no.4, pp.392-399, 2011 (SCI-Expanded)

XXVIII. Use of Pistachio Shells as an Adsorbent for the Removal of Zinc(II) Ion

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- XXIX. **ADSORPTION OF COPPER(II) AND ZINC(II) IONS BY VARIOUS AGRICULTURAL BY-PRODUCTS. EXPERIMENTAL STUDIES AND MODELLING**
Turan N. G., Mesci Oktay B.
ENVIRONMENT PROTECTION ENGINEERING, vol.37, no.4, pp.143-161, 2011 (SCI-Expanded)
- XXX. **Removal of Cu(II) from leachate using natural zeolite as a landfill liner material**
Turan N. G., Ergun O. N.
JOURNAL OF HAZARDOUS MATERIALS, vol.167, no.1-3, pp.696-700, 2009 (SCI-Expanded)
- XXXI. **Municipal solid waste management strategies in Turkey**
Turan N. G., Çoruh S., Akdemir A., Ergun O. N.
WASTE MANAGEMENT, vol.29, no.1, pp.465-469, 2009 (SCI-Expanded)
- XXXII. **Improving the quality of municipal solid waste compost by using expanded Perlite and natural zeolite**
Turan N. G., Ergun O. N.
CLEAN-SOIL AIR WATER, vol.36, no.3, pp.330-334, 2008 (SCI-Expanded)
- XXXIII. **The effects of aeration modifications on municipal solid waste composting**
Turan N. G., Ergun O. N.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.17, no.7A, pp.778-785, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Municipal Solid Waste Management and Evaluation of Zero Waste Strategy in Ordu**
Başköy Bektaş C., Turan N. G.
Karadeniz Fen Bilimleri Dergisi, vol.13, no.4, pp.1906-1917, 2023 (Peer-Reviewed Journal)
- II. **Investigation of the Amount, Composition, and Management of Municipal Solid Wastes in Giresun**
TEMEL F. A., TURAN N. G.
Karadeniz Fen Bilimleri Dergisi, vol.12, no.1, pp.479-491, 2022 (Peer-Reviewed Journal)
- III. **EFFECTS of BIOMASS FLY ASH IN MUNICIPAL SOLID WASTE COMPOSTING**
DOĞAN H., TURAN N. G.
Journal of Scientific Reports-C, no.2, pp.11-17, 2021 (Peer-Reviewed Journal)
- IV. **Effect of Moisture Content on the Composting Process of Cattle Manure and Fresh Food Waste**
BAYINDIR Y., TURAN N. G.
Karadeniz Fen Bilimleri Dergisi, vol.11, no.1, pp.289-296, 2021 (Peer-Reviewed Journal)
- V. **Management Model of Lakes as a tool for planning the remediation of Suat Uğurlu Lake**
AYDIN ER B., AYERİ T., AYDIN TEMEL F., TURAN N. G., ARDALI Y.
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.5, no.7, pp.732, 2017 (Peer-Reviewed Journal)
- VI. **A Global Perspective on Urban Environmental Problems in Developing Countries The Case of Turkey**
KONUK N., TURAN N. G., ARDALI Y.
International Journal of Social, Behavioral, Educational, Economic, Business and Industrial Engineering, vol.10, no.4, pp.1281-1285, 2016 (Peer-Reviewed Journal)
- VII. **A Global perspective on Urban Env Problems in Developing Countries The case of Turkey**
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Int. J. of Social, Behavioral, Educational, economic, Business and Ind. Eng., vol.10, no.4, pp.1281-1285, 2016 (Peer-Reviewed Journal)
- VIII. **Cu II removal from industrial leachate by adsorption using expanded perlite**
ARDALI Y., TURAN N. G., AYDIN TEMEL F.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.19, no.1-2, pp.54-61, 2014 (Peer-Reviewed Journal)
- IX. **Cu II removal from industrial leachate by adsorption using expanded perlite**
ARDALI Y., TURAN N. G., AYDIN TEMEL F.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.19, no.1-2, pp.54-61, 2014 (Peer-Reviewed Journal)

Books & Book Chapters

I. KATI ATIK YÖNETİMİ VE TEKNOLOJİLERİ

ÖZKAYA B., AKKAYA E., DEMİR A., VARANK G., Akça L., yay s. e., akıncı g., yıldız ş., BÜYÜKKAMACI N., KOÇER N., et al. Nobel, 2017

II. Landfilling: Environmental Issues

DEMİR A., VARANK G., ÖZÇOBAN M. Ş., KARADAĞ D., BANAR M., AYOL A., ÖZKAYA B., TURAN N. G., AKINCI G., BÜYÜKKAMACI N., et al.

in: Katı Atık Yönetimi ve Teknolojileri, Ahmet Demir, Lütfi Akça, Editor, Nobel Akademik Yayıncılık, Ankara, pp.695-709, 2017

III. Atık Yönetimi Senaryolarının YDD ile Modelleme

AKKAYA E., DEMİR A., VARANK G., KARADAĞ D., ÖZKAYA B., BANAR M., TURAN N. G., AKÇA L., BÜYÜKKAMACI N., ERSES YAY A. S., et al.

in: Solid Waste Technology and Management-Katı Atık Yönetimi ve Teknolojileri, AHMET DEMİR, LÜTFİ AKÇA, Editor, Nobel, pp.161-179, 2017

IV. SPECIAL ISSUES

ARDALI Y., TURAN N. G., KONUK N.

in: RESEARCH HIGHLIGHTS IN EDUCATION AND SCIENCE, WENXIA WU, SELAHATTİN ALAN. M.TEVFİK HEBEBCİ, Editor, EĞİTEN, bodrum, pp.124-132, 2016

V. Environmental Education in Turkey

ARDALI Y., TURAN N. G., KONUK N.

in: Research Highlights in Education ans Science 2016, Wenxia Wu, Selahattin Alan, Mustafa Tevfik Hebebcı, Editor, ISRES Publishing, Muğla, pp.124-131, 2016

VI. Katı Atıklar ve Geri Kazanımı

TURAN N. G.

in: Tarım Hayvancılık Çevre Ekonomi Sağlık Kadın Öğretim Üyeleri Toplum Konferansları, Tülay Bakır, Hüseyin Duran, Editor, Renkvizyon Yayıncılık, Samsun, pp.310-320, 2015

Refereed Congress / Symposium Publications in Proceedings

I. An overview of packaging waste management in Turkey

AYCAN DÜMENCİ N., TURAN N. G.

International Conference on Resource Recovery in Environmental Engineering, İstanbul, Turkey, 15 - 16 November 2018, pp.115-119

II. Urban problems and sustainable urbanization strategies in Turkey

ATMACA K., TURAN N. G., BEYAZIT N.

1. International Technological Sciences and Design Symposium, Giresun, Turkey, 27 - 29 June 2018, pp.224-231

III. Effects of pumice amendment on compost quality in Industrial Sludge Composting

AYCAN N., TURAN N. G.

1. International Technological Sciences and Design Symposium, Giresun, Turkey, 27 - 29 June 2018, pp.150-158

IV. A perspective for sewage sludge management in Turkey

KÖKSAL Ö., TURAN N. G., ARDALI Y.

1. International Technological Sciences and Design Symposium, Giresun, Turkey, 27 - 29 June 2018, pp.140-149

V. Removal of color from landfill leachate by electro-fenton method using graphite, carbon cloth and stainless steel as cathode materials: A comparative study

ATMACA K., BEYAZIT N., TURAN N. G.

International Symposium on Urban Water and Wastewater Management, Denizli, Turkey, 25 - 27 October 2018, pp.994-1000

VI. Potentials for the optimization of industrial sludge composting using expanded perlite

AYCAN DÜMENCİ N., TURAN N. G.

- II. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 July 2018, pp.1092-1097
- VII. **Plastic Packaging Wastes and Their Management in Turkey**
TURAN N. G., AYDIN TEMEL F., ARDALI Y.
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- VIII. **Hazardous Waste Management in Ordu**
VARLIK M., TURAN N. G.
International Forestry and Environment Symposium, Trabzon, Turkey, 7 - 10 November 2017, pp.72
- IX. **Municipal Wastewater Treatment in Turkey: Current Status and Issues**
TIRINK S., TURAN N. G.
VIII. International Symposium On Ecology And Environmental Problems (ISEEP), Çanakkale, Turkey, 4 - 07 October 2017
- X. **Investigation of Energy Recovery in Steam Lines of an Automotive Industry**
İPEK S., TURAN N. G.
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- XI. **Current Situation and Challenges of Municipal Solid Waste Management in Turkey**
TIRINK S., TURAN N. G.
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- XII. **Open Dumpsite Rehabilitation in Ünye, Ordu**
BEYLİ H., TURAN N. G.
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- XIII. **The Use of Constructed Wetlands in Turkey**
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- XIV. **The Use of Pesticides in Giresun City, Turkey**
AYDIN TEMEL F., TURAN N. G., ARDALI Y.
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- XV. **Eco-Industrial Park Approach for Organized Industrial Zones in Turkey**
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- XVI. **Vegetable Waste Oil Management and Evaluation according to EU Regulations in Turkey**
VARLIK M., TURAN N. G.
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- XVII. **Manufacturing Waste Management and Related Problems in Turkey**
VARLIK M., TURAN N. G.
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- XVIII. **THE SWOT ANALYSIS FOR SUSTAINABLE MUNUCIPAL SOLID WASTE MANAGEMENT IN TURKEY AND MINIMIZATION PRACTICES FOR CLENER EMISSIONS**
AYDIN TEMEL F., KONUK N., AYERİ T., TURAN N. G., ARDALI Y.
1ST INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES, 31 August - 03 September 2016
- XIX. **The importance of environmental education attidues and behaviors for household waste management in Black SeaRegion Turkey**
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ICRES2016, Bodrum, Turkey, 19 - 22 May 2016, pp.566-571
- XX. **The importance of urbanization in education**
KONUK N., TURAN N. G., ARDALI Y.
ICRES 2016, Bodrum, Turkey, 19 - 22 May 2016, pp.571-575
- XXI. **Management Model of Lakes as a tool of planning the remediation of Suat Uğurlu Lake**
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- IBCESS 16 1st International Black Sea Congress on Environmental Sciences, Giresun, Turkey, 31 August - 03 September 2016
- XXII. The SWOT analysis for sustainable municipal waste management in Turkey and minimization practices for cleaner emissions**
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- XXIII. The Importance of Urbanization in Education**
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- XXIV. Environmental Education in Turkey**
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- XXV. The Importance of Environmental Education on Attitudes and Behaviors for Household Waste Management in Black Sea Region Turkey**
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- XXVIII. Management Model of Lakes as a Tool for Planning the Remediation of Suat Uğurlu Lake**
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- XXIX. Cittaslow Applicability for Samsun**
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- XXX. Türkiye de Tehlikeli Atık Yönetimi ve AB Mevzuatına Göre Değerlendirme**
VARLIK M., TURAN N. G.
1. Uluslararası Şehir Çevre ve Sağlık Kongresi, 11 - 15 May 2016, pp.270-277
- XXXI. A Global Perspective on Urban Environmental Problems in Developing Countries The Case of Turkey**
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- XXXII. Solid Waste Landfilling Practices Related Problems and Sustainable Solutions in Turkey**
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- XXXIII. Degradation of Endosulfan in Different Soils by Indigenus and Adapted Microorganisms**
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- XXXIV. **Lead II removal onto expanded vermiculite from industrial leachate using Box Behnken approach**
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- XXXV. **Bakır Cürüfunun Karakteristikleri ve Kullanım Alanları**
MESKİ B., TURAN N. G., MUTUK T.
9.Uluslararası Çevre Mühendisliği Kongresi, Turkey, 5 - 08 October 2011
- XXXVI. **Fosfojips Kullanılarak Endüstriyel Atıklardan Bakır Giderimi**
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- XXXVII. **Municipal Solid Waste Characteristics and Management in Samsun**
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- XXXVIII. **Doğal ve Modifiye Edilmiş Klinoptilolit Kullanarak Endüstriyel Atıksulardan Ağır Metal Giderimi**
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10.Endüstriyel Kirlenme Kontrolü Sempozyumu, İstanbul, Turkey, 7 - 09 June 2006, pp.517-523
- XXXIX. **Kümes hayvanları Atıklarının Özellikleri ve Çevresel Etkileri**
TURAN N. G., ÇORUH S., AKDEMİR A., ERGUN O. N.
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