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Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Bilimleri Ve Mühendisliği (Dr), Turkey 1986 - 1990

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Yl) (Tezli), Turkey 1984 - 1986

Under Graduate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1979 - 1984

Foreign Languages

English

Research Areas

Technical Sciences, Environmental Engineering, Environmental Technology, Environmental Impact Assessment, Environmental Management, Industrial and Hazardous Waste Management, Pollution Prevention and Waste Reduction, Water Pollution and Control, Hazardous Waste Management

Academic Titles / Tasks

Professor, Istanbul Technical University, İnşaat, Çevre Mühendisliği, 2000 - Continues

Associate Professor, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, 1995 - 2000

Assistant Professor, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, 1991 - 1995

Research Assistant, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, 1986 - 1991

Professional Experience

Head of Department, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, 2002 - 2004

Advising Theses

Babuna F. F. , Baş B., ENVIRONMENTAL LIFE CYCLE ASSESSMENT OF HOT MIX ASPHALT BOULEVARD ROAD, Post Graduate, H.QUROOT(Student), 2020

Babuna F. F. , Environmental life cycle assessment of zinc phosphating chemicals, Post Graduate, H.İLAYDA(Student), 2020

Babuna F. F. , ENVIRONMENTAL EFFECTS OF PROFILE PIPE PRODUCTION, Post Graduate, İ.ŞANAL(Student), 2020

Babuna F. F. , ENVIRONMENTAL IMPACTS OF INDUSTRIAL BOILER MAKE-UP WATER TREATMENT SYSTEMS, Post Graduate, B.BURCU(Student), 2019

Babuna F. F. , Elginöz N., ENVIRONMENTAL IMPACT ANALYSIS OF THE CONSTRUCTION AND END OF LIFE PHASES OF A CONCRETE REINFORCED WAINSCOTING BUILDING, Post Graduate, C.SÖNMEZ(Student), 2019

Babuna F. F. , Mobilya endüstrisinde yaşam döngüsü analizi yaklaşımı ile çevreci tasarım ve sürdürülebilir stratejiler, Post Graduate, M.MERMERTAŞ(Student), 2018

Babuna F. F. , Environmental hotspots in cataphoresis process of automotive industry, Post Graduate, P.NUR(Student), 2018

Babuna F. F. , ENVIRONMENTAL IMPACTS OF A WIND FARM, Post Graduate, B.BAYINDIR(Student), 2018

Babuna F. F. , Sustainability assessment for a large water treatment plant via life cycle approach, Post Graduate, A.ZYARA(Student), 2017

Babuna F. F. , Elginöz N., LIFE CYCLE ASSESSMENT OF PRINTED CIRCUIT BOARD MANUFACTURING, Post Graduate, E.ÖZKAN(Student), 2017

Babuna F. F. , Effect of salt concentration on the characteristics of biomass and organic removal in an anaerobic membrane bioreactor, Post Graduate, B.DÖNMEZ(Student), 2016

Babuna F. F. , Assessment of environmental sustainability for an existing airport, Post Graduate, S.AKŞİT(Student), 2015

Babuna F. F. , Tekstil endüstrisinde kullanılan yardımcı kimyasalları taşıyan ayrık akımların arıtılabilirliği, Post Graduate, C.TÜRKER(Student), 2013

Babuna F. F. , Biyolojik arıtılabilirlik bazlı atık su karakterizasyonu ve atık aktif çamur üzerinde ozonlamanın etkisi, Doctorate, S.DOĞRUEL(Student), 2006

Babuna F. F. , The effect of ozone pretreatment on the biodegradability and toxicity of natural tannin and synthetic tannin, Post Graduate, Z.YILMAZ(Student), 2006

Babuna F. F. , Tekstil endüstrisi yardımcı maddelerinden naftalen sülfonik asidin arıtılabilirliği, Post Graduate, S.ÇAMUR(Student), 2006

Babuna F. F. , Sefalosporin formülasyon atık sularının O3 ve O3/H2O2 prosesleri ile ön arıtılabilirliği, Post Graduate, T.TEZGEL(Student), 2006

Babuna F. F. , Boya endüstrisi atıksularının kimyasal arıtılabilirliği, Post Graduate, G.KUTLUAY(Student), 2005

Babuna F. F. , Treatability of dye carriers used in textile industry, Post Graduate, B.ÖZERKAN(Student), 2005

Babuna F. F. , Technical Solutions to Industrial Pollution:The Case of Wastewater Treatment Technology in the Turkish Textile Industry, Post Graduate, L.MADSEN(Student), 2003

Babuna F. F. , GÖKŞEN SERDAR, (2003). Boya atık sularının arıtılabilirliği, Post Graduate, S.GÖKŞEN(Student), 2003

Babuna F. F. , Bir tekstil endüstrisi boya atıksularının kimyasal arıtılabilirliği, Post Graduate, H.ÜNER(Student), 2002

Babuna F. F. , Anaerobik arıtma giriş atık sularında inert fraksiyonların saptanması, Post Graduate, A.ŞİMŞEK(Student), 2001

Babuna F. F. , Bir pamuklu son işlemleri endüstrisinde ozonlamanın KOİ bileşenleri üzerine etkisi, Post Graduate, S.DOĞRUEL(Student), 2000

Babuna F. F. , ISO 14001 çevre yönetim sistem standardı, Post Graduate, F.ATICI(Student), 1999

Babuna F. F. , Tekstil boyama atıksularının arıtılabilirliği, Post Graduate, B.SOYHAN(Student), 1998

Babuna F. F. , Tekstil endüstrisi boyama atıksularının karakterizasyonu ve biyolojik arıtılabilirliği, Post Graduate, B.YAPRAKLI(Student), 1997

Babuna F. F. , Yumurta tavukçuluğunda inert KOİ ve kirletici yüklerin belirlenmesi, Post Graduate, E.ÇEKYAY(Student), 1997

Babuna F. F. , Evsel atıksularda biyolojik arıtma sonrasında kimyasal fosfor giderimi, Post Graduate, N.ÇELİK(Student), 1995

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Environmental sensitivity of printed circuit board manufacturing to Cu recycling rate, transportation and various energy sources**
Ozkan E., Bas B., Elginöz N., Babuna F. F.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.20, pp.237-248, 2020 (Journal Indexed in SCI)
- II. **Construction of a large water treatment plant: appraisal of environmental hotspots**
Elginöz N., Alzaboot M., Babuna F. F. , Iskender G.
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- III. **Environmental burdens of cataphoresis process**
 Karacal P. N. , Elginöz N., Babuna F. F.
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- IV. **Life cycle assessment of a large water treatment plant in Turkey**
 Saad A., Elginöz Kanat N., Babuna F. F. , Iskender G.
 ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, pp.14823-14834, 2019 (Journal Indexed in SCI)
- V. **Life cycle assessment of a printed circuit board manufacturing plant in Turkey**
 Özkan E., Elginöz Kanat N., Babuna F. F.
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- VI. **Prioritization methodology of dangerous substances for water quality monitoring with scarce data**
 Ozgun O. K. , BASAK B., EROPAK C., ABAT S., KIRIM G., GIRGIN E., HANEDAR A., Gunes E., CITIL E., Gorgun E., et al.
 CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, vol.19, pp.105-122, 2017 (Journal Indexed in SCI)
- VII. **EFFECT OF DI-BUTYLPHTHALATE SPILLAGE SCENARIOS ON THE GENERAL LAYOUT OF A PLANT**
 Avsar E., Iskender F. G. , DEMIR S., Babuna F. F.
 FRESenius ENVIRONMENTAL BULLETIN, vol.26, pp.204-207, 2017 (Journal Indexed in SCI)
- VIII. **EVALUATION OF WATER REUSE IN A METAL FINISHING INDUSTRY**
 INSEL G., Gümüşlü E., Yuksek G., UCAR N. S. , Cokgor E., OLMEZ-HANCI T., TAS D. O. , BABUNA F. F. , ERTEM D. F. , OkmenYildirim O., et al.
 FRESenius ENVIRONMENTAL BULLETIN, vol.26, pp.421-425, 2017 (Journal Indexed in SCI)
- IX. **Hazardous waste generation in Turkish pesticide industry**
 Babuna F. F. , Toröz İ., Avsar E., YETİŞ Ü.
 DESALINATION AND WATER TREATMENT, vol.57, pp.26280-26285, 2016 (Journal Indexed in SCI)
- X. **Biodegradability, toxicity, and photochemical treatment of a textile surfactant**
 Babuna F. F. , TURKER C., CABUK M. O. , Hanci T. O.
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- XI. **FATE OF PARACETAMOL PRODUCTION WASTEWATERS UNDER AEROBIC AND ANAEROBIC TREATMENT**
 Babuna F. F. , AVSAR E., Iskender G., DARCAN B.
 FRESenius ENVIRONMENTAL BULLETIN, vol.23, pp.3232-3236, 2014 (Journal Indexed in SCI)
- XII. **AN EVALUATION OF COMMERCIAL TEXTILE TANNINS BASED ON THEIR INERT COD CONTENT AND TOXICITY**
 TEZGEL T., Babuna G. F. , Iskender G.
 GLOBAL NEST JOURNAL, vol.16, pp.52-58, 2014 (Journal Indexed in SCI)
- XIII. **The application of ozonation for the detoxification and biodegradability improvement of a textile auxiliary: Naphtalene sulphonic acid**
 Babuna F. F. , CAMUR S., Alaton I. A. , Okay O., Iskender G.
 DESALINATION, vol.249, pp.682-686, 2009 (Journal Indexed in SCI)
- XIV. **Treatment options for effluents from a solid waste transport station**
 KUTLUAY G., Iskender G., Babuna F. F. , ORHON D.
 DESALINATION, vol.211, pp.96-101, 2007 (Journal Indexed in SCI)
- XV. **Improving the wastewater management for a beverage industry with in-plant control**
 OKTAY S., Iskender G., Babuna F. F. , KUTLUAY G., ORHON D.
 DESALINATION, vol.211, pp.138-143, 2007 (Journal Indexed in SCI)
- XVI. **Ozonation of synthetic versus natural textile tannins: recalcitrance and toxicity towards Phaeodactylum tricornutum**
 Babuna F. F. , YILMAZ Z., Okay O. S. , Alaton I. A. , Iskender G.
 WATER SCIENCE AND TECHNOLOGY, vol.55, pp.45-52, 2007 (Journal Indexed in SCI)
- XVII. **Treatability of cefazolin antibiotic formulation effluent with O-3 and O-3/H2O2 processes**
 Iskender G., SEZER A., Arslan-Alaton I., Babuna F. F. , Okay O. S.
 WATER SCIENCE AND TECHNOLOGY, vol.55, pp.217-225, 2007 (Journal Indexed in SCI)
- XVIII. **Effect of ozonation on biodegradability characteristics of surplus activated sludge**

- Dogrue S, SIEVERS M., Germirli-Babuna F. F.
OZONE-SCIENCE & ENGINEERING, vol.29, pp.191-199, 2007 (Journal Indexed in SCI)
- XIX. **Effect of chemical treatment on the acute toxicity of two commercial textile dye carriers**
Arslan-Alaton I., Iskender G., OZERKAN B., Babuna F. F. , Okay O. S.
WATER SCIENCE AND TECHNOLOGY, vol.55, pp.253-260, 2007 (Journal Indexed in SCI)
- XX. **An investigation on the optimal location of ozonation within biological treatment for a tannery wastewater**
Dogruel S, Genceli E. A. , Babuna F. F. , ORHON D.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.81, pp.1877-1885, 2006 (Journal Indexed in SCI)
- XXI. **Evaluation of coagulation-flocculation on a COD-based molecular size distribution for a textile finishing mill effluent**
UNER H., Dogruel S., Arslan-Alaton I., Babuna F. F. , ORHON D.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.41, pp.1899-1908, 2006 (Journal Indexed in SCI)
- XXII. **Coagulation-flocculation of wastewaters from a water-based paint and allied products industry and its effect on inert COD**
Eremektar G., GOKSEN S., Babuna F. F. , Dogruel S.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.41, pp.1843-1852, 2006 (Journal Indexed in SCI)
- XXIII. **Pre-ozonation of commercial textile tannins: Effects on biodegradability and toxicity**
KOYUNLUOGLU S., Arslan-Alaton I., Eremektar G., Germirli-Babuna F. F.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.41, pp.1873-1886, 2006 (Journal Indexed in SCI)
- XXIV. **Effluent management for a metal finishing industry aiming zero discharge conditions**
BABUNA F. F. , KABDASLI I., Sozen S., Orhon D.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.41, pp.1793-1806, 2006 (Journal Indexed in SCI)
- XXV. **Toxicity assessment of raw and ozonated textile biocides**
Arslan-Alaton I., Okay O. S. , EREMEKTAR G., Germirli-Babuna F. F.
AATCC REVIEW, vol.6, pp.43-48, 2006 (Journal Indexed in SCI)
- XXVI. **Effect of textile auxiliaries on the biodegradation of dyehouse effluent in activated sludge**
Alaton I., Insel G., Eremektar G., Babuna F. F. , ORHON D.
CHEMOSPHERE, vol.62, pp.1549-1557, 2006 (Journal Indexed in SCI)
- XXVII. **Advanced oxidation of commercial textile biocides in aqueous solution: effects on acute toxicity and biomass inhibition**
Arslan-Alaton I., Eremektar G., Germirli-Babuna F. F. , Insel G., SELCUK H., OZERKAN B., TEKSOY S.
WATER SCIENCE AND TECHNOLOGY, vol.52, pp.309-316, 2005 (Journal Indexed in SCI)
- XXVIII. **Recent practices on wastewater reuse in Turkey**
Tanik A. G. , Ekdal A., Babuna F. F. , ORHON D.
WATER SCIENCE AND TECHNOLOGY, vol.51, pp.141-149, 2005 (Journal Indexed in SCI)
- XXIX. **Chemical pre-treatment of textile dye carriers with ozone: Effects on acute toxicity and activated sludge inhibition**
Arslan-Alaton W., Eremektar G., Babuna F. F. , SELCUK H., ORHON D.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.13, pp.1040-1045, 2004 (Journal Indexed in SCI)
- XXX. **Treatability of water-based paint industry effluents**
KUTLUAY G., Babuna F. F. , Eremektar G., ORHON D.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.13, pp.1057-1060, 2004 (Journal Indexed in SCI)
- XXXI. **Ozonation of nonbiodegradable organics in tannery wastewater**
Dogruel S, Genceli E., Babuna F. F. , ORHON D.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES &

- ENVIRONMENTAL ENGINEERING, vol.39, pp.1705-1715, 2004 (Journal Indexed in SCI)
- XXXII. **Advanced oxidative treatment of dyehouse effluents using Fenton's reagent, O-3 and O₃H₂O₂ processes**
UNER H., Dogruel S., Alaton I., Babuna F. F.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.13, pp.959-964, 2004 (Journal Indexed in SCI)
- XXXIII. **Feasibility analysis of in-plant control for water minimization and wastewater reuse in a wool finishing textile mill**
ERDOGAN A., ORHON H., DULKADIROGLU H., Dogruel S., Eremektar G., Babuna F. F., ORHON D.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.39, pp.1819-1832, 2004 (Journal Indexed in SCI)
- XXXIV. **Wastewater reuse for the minimization of fresh water demand in coastal areas - Selected cases from the textile finishing industry**
ORHON D., Kabdasli I., Babuna F. F., Sozen S., DULKADIROGLU H., Dogruel S., Gul O., Insel G.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.38, pp.1641-1657, 2003 (Journal Indexed in SCI)
- XXXV. **Effect of stream segregation on ozonation for the removal of significant COD fractions from textile wastewater**
Dogruel S., Germirli-Babuna F. F., Kabdasli I., Insel G., ORHON D.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.78, pp.6-14, 2003 (Journal Indexed in SCI)
- XXXVI. **Effect of ozonation on the biological treatability of a textile mill effluent**
Karahan O., DULKADIROGLU H., Kabdasli I., Sozen S., Babuna F. F., ORHON D.
ENVIRONMENTAL TECHNOLOGY, vol.23, pp.1325-1336, 2002 (Journal Indexed in SCI)
- XXXVII. **Ozonation application in activated sludge systems for a textile mill effluent**
ORHON D., DULKADIROGLU H., Dogruel S., Kabdasli I., Sozen S., Babuna F. F.
WATER SCIENCE AND TECHNOLOGY, vol.45, pp.305-313, 2002 (Journal Indexed in SCI)
- XXXVIII. **Biological treatability of a corn wet mill effluent**
Eremektar G., Karahan-Gul O., Germirli-Babuna F. F., Ovez S., UNER H., ORHON D.
WATER SCIENCE AND TECHNOLOGY, vol.45, pp.339-346, 2002 (Journal Indexed in SCI)
- XXXIX. **In-plant control applications and their effect on treatability of a textile mill wastewater**
DULKADIROGLU H., Eremektar G., Dogruel S., UNER H., Germirli-Babuna F. F., ORHON D.
WATER SCIENCE AND TECHNOLOGY, vol.45, pp.287-295, 2002 (Journal Indexed in SCI)
- XL. **Characterization and modelling of denim-processing wastewaters for activated sludge**
ORHON D., Babuna F. F., Insel G.
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- XLI. **Pollution profile of a corn wet mill**
Ovez S., Eremektar G., Babuna F. F., ORHON D.
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- XLII. **A scientific approach to wastewater recovery and reuse in the textile industry**
ORHON D., Babuna F. F., Kabdasli I., Insel F., Karahan O., DULKADIROGLU H., Dogruel S., SEVIMLI F., YEDILER A.
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- XLIII. **Fate of inert COD fractions in two-stage biological treatment of a strong wastewater**
Eremektar G., Babuna F. F., Ince O.
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- XLIV. **Pollution loads and inert cod in the laying chicken industry**
Babuna F. F., CEKYAY E., Eremektar G., ORHON D.
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- XLV. **Biological treatability of poultry processing plant effluent - A case study**
Eremektar G., Cokgor E., Ovez S., Babuna F. F., ORHON D.
WATER SCIENCE AND TECHNOLOGY, vol.40, pp.323-329, 1999 (Journal Indexed in SCI)
- XLVI. **Evaluation of treatability for two textile mill effluents**

- Babuna F. F. , SOYHAN B., Eremektar G., ORHON D.
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- XLVII. **Wastewater characterization in metropolitan areas with significant agro industries**
 Gorgun E., Babuna F. F. , Orhon D., Ozbasaran M., Seckin N.
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- XLVIII. **The effect of nitrification on the experimental assessment of inert cod fractions**
 Babuna F. F.
 FRESenius ENVIRONMENTAL BULLETIN, vol.7, pp.951-958, 1998 (Journal Indexed in SCI)
- XLIX. **Assessment of inert cod in pulp and paper mill wastewater under anaerobic conditions**
 Babuna F. F. , Ince O., ORHON D., SIMSEK A.
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- L. **Inert cod fractions of various textile dyeing wastewaters**
 Babuna F. F. , Eremektar G., YAPRAKLI B.
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- LII. **Experimental determination of the inert soluble cod fraction of a brewery wastewater under anaerobic conditions**
 Ince O., Babuna F. F. , KASAPGIL B., ANDERSON G.
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- LIII. **Modelling of activated sludge for textile wastewaters**
 Babuna F. F. , ORHON D., Cokgor E., Insel G., YAPRAKLI B.
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- LIV. **A systematic approach to assess the pollution characteristic in the textile industry**
 Germirli F. F. , Tunay O., ORHON D., MERIC S.
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- LV. **Assessment of industrial waste loads in Istanbul watershed areas**
 Tunay O., Germirli F. F. , MERIC S., ORHON D., GONENC E.
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- LVI. **Modelling biological treatability for meat processing effluent**
 Gorgun E., Cokgor E., ORHON D., Germirli F. F. , Artan N.
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- LVII. **EXPERIMENTAL APPROACHES FOR THE CHARACTERIZATION OF A NITRIFICATION DENITRIFICATION PROCESS ON INDUSTRIAL WASTE-WATER**
 Bortone G., CECH J., GERMIRLI F. F. , BIANCHI R., Tilche A.
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- LVIII. **BIOLOGICAL TREATABILITY OF DAIRY WASTEWATERS**
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- LIX. **FATE OF RESIDUALS IN NITRIFICATION DENITRIFICATION TREATMENT OF PIGGERY WASTEWATERS**
 GERMIRLI F. F. , Bortone G., ORHON D., Tilche A.
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- LX. **EFFECT OF 2-STAGE TREATMENT ON THE BIOLOGICAL TREATABILITY OF STRONG INDUSTRIAL-WASTES**
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- LXI. **APPROPRIATE TREATMENT TECHNOLOGIES FOR TEXTILE WASTEWATERS**
 Germirli F. F. , ORHON D., Tunay O.
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- LXII. **NEW APPROACHES IN WATER QUALITY CLASSIFICATION**

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- LXIII. **ASSESSMENT OF THE INITIAL INERT SOLUBLE COD IN INDUSTRIAL WASTEWATERS**
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- LXIV. **POLLUTANTS FROM LAND-BASED SOURCES IN IZMIT BAY**
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- LXV. **DEVELOPMENTS IN WASTE-WATER DISCHARGE STANDARD APPROACHES**
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- LXVI. **AN OVERVIEW OF THE TEXTILE-INDUSTRY IN TURKEY - POLLUTION PROFILES AND TREATABILITY CHARACTERISTICS**
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- I. **Life Cycle Environmental Impact Analysis of HDPE Packaging Materials for Different Disposal Options**
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