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Education

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Dr), Turkey 1985 - 1992
Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Çevre Bilimleri (YI) (Tezli), Turkey 1982 - 1984
Undergraduate, Ege University, Faculty Of Science, Biyoloji Bölümü, Turkey 1976 - 1981

Dissertations

Doctorate, AKIŞKAN YATAKTA NİTRİKİKASYON KİNETİĞİ, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği (Dr), 1992
Postgraduate, AĞIR METALLERİN KOMPOST MİKROORGANİZMALARI ÜZERİNE ETKİLERİ, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Çevre Bilimleri (YI) (Tezli), 1981

Research Areas

Environmental Technology

Academic Positions

Professor, Dokuz Eylul University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 1982 - 2027
Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 1996 - 2000
Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 1982 - 1996

Academic and Administrative Experience

Dokuz Eylul University, 2012 - 2015
Dokuz Eylul University, 2009 - 2013
Dokuz Eylul University, 2000 - 2010

Courses

Undergraduate

CEVRE MUHENDISLIGINDE NANOTEKNOLOJIK UYGULAMALAR, Undergraduate, 2022 - 2023
CEVRE MUHENDISLIGINDE EKOLOJİ, Undergraduate, 2022 - 2023
BIYOLOJİK YONTEMLERLE NUTRIYENT GIDERİMİ, Undergraduate, 2022 - 2023
CEVRE MİKROBİYOLOJİSİ, Undergraduate, 2022 - 2023

Supervised Theses

SPONZA D. T., Hastane atıksuyunda bulunan bazı bromlu, florlu, nitro ve fenol grubu içeren mikrokirleticilerin karakterizasyonu ve arıtma alternatifleri, Doctorate, G.GÜNEY(Student), 2020
SPONZA D. T., İzmir'de bulunan bir hastanenin atıksu ve atıklarının yönetiminde sıfır deşarj yaklaşımı, Postgraduate, D.ARDENİZ(Student), 2019
SPONZA D. T., Bio-fuel production from carbondioxide gas, Postgraduate, C.DOĞAN(Student), 2016
SPONZA D. T., Nanosilyum-ZnO kullanarak karasuyun fotoksidasyon ile arıtılması, Postgraduate, Ç.ULUSOY(Student), 2016
SPONZA D. T., Fluorokuinolan grubu antibiyotiklerin nano-magnetit grafen oksit bileşimleri kullanılarak arıtılması, Postgraduate, P.ALİCANOĞLU(Student), 2016
SPONZA D. T., İmmobilize edilmiş nano-ZnO-Magnetit ile karasuyunun arıtılması, Postgraduate, M.BALABAN(Student), 2015
SPONZA D. T., Environmental toxicity of nanoparticles, Postgraduate, N.ERDİNÇMER(Student), 2015
SPONZA D. T., Treatability of antibiotics in sequential buoyant filter/aerobic and multichamber/aerobic systems, Doctorate, H.ÇELEBİ(Student), 2012
SPONZA D. T., Anaerobik ve aerobik kademelerin bir petrokimya endüstrisi atıksuyundaki Poliaromatik Hidrokarbonların(PAH) giderimine etkileri, Doctorate, O.GÖK(Student), 2012
SPONZA D. T., tam karışımli reaktörlerde (SKTR) arıtılabilirlikleri, Doctorate, H.ÇELEBİ(Student), 2012
SPONZA D. T., Ses dalgalarının toksik ve zor ayrışabilen endüstriyel atıksuların arıtımına etkisi, Doctorate, R.ÖZTEKİN(Student), 2011
SPONZA D. T., UASB reaktörde anammox prosesi ile nutrient giderimi, Postgraduate, G.BAYRAM(Student), 2011
SPONZA D. T., Anaerobic/aerobic sequential treatment of chloramphenicol and streptomycin antibiotics using anaerobic baffled and aerobic sludge reactors, Postgraduate, S.TÜZÜN(Student), 2009
SPONZA D. T., Kloramfenikol ve streptomisin antibiyotiklerinin ardışık anaerobik perdeli ve aerobik aktif çamur reaktör sistemlerde arıtılması, Postgraduate, S.TÜZÜN(Student), 2009
SPONZA D. T., Nitroorganik bileşiklerin anaerobik arıtılabilirliğinde anaerobik perdeli (apr) ve hareketli yatak reaktör (AHYR)ün karşılaştırılması, Doctorate, Ö.SELÇUK(Student), 2007
SPONZA D. T., Simüle katı atık biyoreaktörlerinde kentsel katı atıkların arıtma verimini etkileyen faktörler, Doctorate, O.NURİ(Student), 2004
SPONZA D. T., Treatability of azo dyes in anaerobic/aerobic sequential processes, Doctorate, M.İŞİK(Student), 2003
SPONZA D. T., Orta derece kirlilikteki bir atıksuyun yukarı akışlı anaerobik çamur yatak (UASB) reaktörlerde arıtma verimliliğini etkileyen faktörler, Postgraduate, N.ÜNAL(Student), 1999

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Polymeric Nanocomposites**
Sponza D. T.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.3, no.1, pp.1-36, 2025 (SCI-Expanded)
- II. **A study of olive mill wastewaters obtained from different treatment processes effects on chemical and microbial properties of a Typic Xerofluent soil and wheat yield**
OKUR N., KAYIKÇIOĞLU H. H., OKUR İ. B., YAĞMUR B., Teresa D. T., Kara R. S.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.44, no.2, pp.140-155, 2020 (SCI-Expanded)
- III. **Biofuel Production from Carbon Dioxide Gas in Polluted Areas**
SPONZA D. T., Vural C., GÜNEY G.
RECYCLING AND REUSE APPROACHES FOR BETTER SUSTAINABILITY, pp.127-139, 2019 (SCI-Expanded)
- IV. **Photodegradation of olive mill wastewater with sunlight using nano-ZnO-SiO₂ composite, its reusability and the quality of treated water**
Ulusoy C., SPONZA D. T.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.19, pp.106-126, 2019 (SCI-Expanded)
- V. **Reuse and recovery of raw hospital wastewater containing ofloxacin after photocatalytic treatment with nano graphene oxide magnetite**
SPONZA D. T., Alicanoglu P.
WATER SCIENCE AND TECHNOLOGY, vol.77, no.2, pp.304-322, 2018 (SCI-Expanded)
- VI. **Photodegradation of some brominated and phenolic micropollutants in raw hospital wastewater with CeO₂ and TiO₂ nanoparticles**
SPONZA D. T., GÜNEY G.
WATER SCIENCE AND TECHNOLOGY, vol.76, no.10, pp.2603-2622, 2017 (SCI-Expanded)
- VII. **Removal of some types of polyphenols and aromatic amines in textile industry wastewaters by nanocerium-dioxide-doped titanium dioxide**
SPONZA D. T., Oztekin R.
DESALINATION AND WATER TREATMENT, vol.71, pp.116-135, 2017 (SCI-Expanded)
- VIII. **Removal of ciprofloxacin antibiotic with nano graphene oxide magnetite composite: comparison of adsorption and photooxidation processes**
ALİCANOĞLU P., SPONZA D. T.
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- IX. **Comparison of biological and advanced treatment processes for ciprofloxacin removal in a raw hospital wastewater**
GÜNEY G., SPONZA D. T.
ENVIRONMENTAL TECHNOLOGY, vol.37, no.24, pp.3151-3167, 2016 (SCI-Expanded)
- X. **Treatment of olive mill wastewater by photooxidation with ZrO₂-doped TiO₂ nanocomposite and its reuse capability**
SPONZA D. T., Oztekin R.
ENVIRONMENTAL TECHNOLOGY, vol.37, no.7, pp.865-879, 2016 (SCI-Expanded)
- XI. **Photodegradation of olive mill effluent with hydrogel-coated Fe₃O₄ magnetite composite**
SPONZA D. T., Oztekin R.
DESALINATION AND WATER TREATMENT, vol.57, no.6, pp.2489-2502, 2016 (SCI-Expanded)
- XII. **Removals of non-analogous OTC and BaP in AMCBR with and without primary substrate**
ÇELEBİ H., GÖK O., SPONZA D. T.
ENVIRONMENTAL TECHNOLOGY, vol.37, no.14, pp.1768-1781, 2016 (SCI-Expanded)
- XIII. **Photodegradation of Polyphenols and Aromatic Amines in Olive Mill Effluents with Ni Doped C/TiO₂**
SPONZA D. T., Oztekin R.
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- XIV. **Dephenolization, dearomatization and detoxification of olive mill wastewater with sonication combined with additives and radical scavengers**
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ULTRASONICS SONOCHEMISTRY, vol.21, no.3, pp.1244-1257, 2014 (SCI-Expanded)
- XV. **Investigation of the Effects of Sewage Sludge Addition into Solid Waste Digestion and Leachate Characteristics**
Agdag O. N., SPONZA D. T.
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.13, pp.7495-7498, 2013 (SCI-Expanded)
- XVI. **Treatment of wastewaters from the olive mill industry by sonication**
Oztekin R., SPONZA D. T.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.88, no.2, pp.212-225, 2013 (SCI-Expanded)
- XVII. **Removal of oxytetracycline (OTC) in a synthetic pharmaceutical wastewater by sequential anaerobic multichamber bed reactor (AMCBR)/completely stirred tank reactor (CSTR) system: biodegradation and inhibition kinetics**
SPONZA D. T., Celebi H.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.87, no.7, pp.961-975, 2012 (SCI-Expanded)
- XVIII. **Aerobic biodegradation and inhibition kinetics of poly-aromatic hydrocarbons (PAHs) in a petrochemical industry wastewater in the presence of biosurfactants**
SPONZA D. T., Gök O.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.87, no.5, pp.658-672, 2012 (SCI-Expanded)
- XIX. **Effectiveness of Air, N-2 (gas), Fe+3 and Fe₃O₄ Nanoparticles on the Sonication of Less and More Hydrophobic Polycyclic Aromatic Hydrocarbons (PAHs) and Toxicity**
SPONZA D. T., Oztekin R.
WATER AIR AND SOIL POLLUTION, vol.223, no.3, pp.1215-1236, 2012 (SCI-Expanded)
- XX. **Removal of oxytetracycline (OTC) in a synthetic pharmaceutical wastewater by a sequential anaerobic multichamber bed reactor (AMCBR)/completely stirred tank reactor (CSTR) system: Biodegradation and inhibition kinetics**
SPONZA D. T., Celebi H.
BIORESOURCE TECHNOLOGY, vol.104, pp.100-110, 2012 (SCI-Expanded)
- XXI. **Comparison of the sensitivities of fish, Microtox and Daphnia-magna bioassays to amoxycillin in anaerobic/aerobic sequential reactor systems**
Celebi H., SPONZA D. T.
WATER SCIENCE AND TECHNOLOGY, vol.66, no.5, pp.1117-1131, 2012 (SCI-Expanded)
- XXII. **Effects of sludge retention time (SRT) and biosurfactant on the removal of polyaromatic compounds and toxicity**
SPONZA D. T., Gök O.
JOURNAL OF HAZARDOUS MATERIALS, vol.197, pp.404-416, 2011 (SCI-Expanded)
- XXIII. **Contribution of Oxides, Salt, and Carbonate to the Sonication of Some Hydrophobic Polyaromatic Hydrocarbons and Toxicity in Petrochemical Industry Wastewater in Izmir, Turkey**
SPONZA D. T., Oztekin R.
JOURNAL OF ENVIRONMENTAL ENGINEERING, vol.137, no.11, pp.1012-1025, 2011 (SCI-Expanded)
- XXIV. **Application of Box-Wilson experimental design method for 2,4-dinitrotoluene treatment in a sequential anaerobic migrating blanket reactor (AMBR)/aerobic completely stirred tank reactor (CSTR) system**
Kuscu O. S., SPONZA D. T.
JOURNAL OF HAZARDOUS MATERIALS, vol.187, pp.222-234, 2011 (SCI-Expanded)
- XXV. **Removals of some hydrophobic poly aromatic hydrocarbons (PAHs) and Daphnia magna acute toxicity in a petrochemical industry wastewater with ultrasound in Izmir-Turkey**
SPONZA D. T., Oztekin R.

- SEPARATION AND PURIFICATION TECHNOLOGY, vol.77, no.3, pp.301-311, 2011 (SCI-Expanded)
- XXVI. **Effects of sludge retention time (SRTs) on the removals of polycyclic aromatic hydrocarbons (PAHs), chemical oxygen demand (COD), and toxicity in a petrochemical industry wastewater**
Gok O, SPONZA D. T.
DESALINATION AND WATER TREATMENT, vol.26, pp.57-65, 2011 (SCI-Expanded)
- XXVII. **Effect of sonication on the treatment of polycyclic aromatic hydrocarbons (PAHs) in a petrochemical industry wastewater and toxicity evaluations**
Oztekin R, SPONZA D. T.
DESALINATION AND WATER TREATMENT, vol.26, pp.24-38, 2011 (SCI-Expanded)
- XXVIII. **Relationships between acute toxicities of para nitrophenol (p-NP) and nitrobenzene (NB) to Daphnia magna and Photobacterium phosphoreum: Physicochemical properties and metabolites under anaerobic/aerobic sequentials**
SPONZA D. T., KUSCU O. S.
JOURNAL OF HAZARDOUS MATERIALS, vol.185, pp.1187-1197, 2011 (SCI-Expanded)
- XXIX. **Effects of sludge retention time and biosurfactant on the treatment of polyaromatic hydrocarbon (PAH) in a petrochemical industry wastewater**
SPONZA D. T., Gok O.
WATER SCIENCE AND TECHNOLOGY, vol.64, no.11, pp.2282-2292, 2011 (SCI-Expanded)
- XXX. **Effect of Ultrasonic Irradiation on the Treatment of Poly-Aromatic Substances (PAHs) from a Petrochemical Industry Wastewater**
SPONZA D. T., OZTEKIN R.
OZONE-SCIENCE & ENGINEERING, vol.33, no.3, pp.194-210, 2011 (SCI-Expanded)
- XXXI. **Destruction of some more and less hydrophobic PAHs and their toxicities in a petrochemical industry wastewater with sonication in Turkey**
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- XXXII. **Removals of PAHs and acute toxicity via sonication in a petrochemical industry wastewater**
SPONZA D. T., OZTEKIN R.
CHEMICAL ENGINEERING JOURNAL, vol.162, no.1, pp.142-150, 2010 (SCI-Expanded)
- XXXIII. **Effect of sonication assisted by titanium dioxide and ferrous ions on polyaromatic hydrocarbons (PAHs) and toxicity removals from a petrochemical industry wastewater in Turkey**
SPONZA D. T., OZTEKIN R.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.85, no.7, pp.913-925, 2010 (SCI-Expanded)
- XXXIV. **Relationships between chemical oxygen demand (COD) components and toxicity in a sequential anaerobic baffled reactor/aerobic completely stirred reactor system treating Kemicetine**
SPONZA D. T., DEMIRDEN P.
JOURNAL OF HAZARDOUS MATERIALS, vol.176, pp.64-75, 2010 (SCI-Expanded)
- XXXV. **Effect of rhamnolipid on the aerobic removal of polyaromatic hydrocarbons (PAHs) and COD components from petrochemical wastewater**
SPONZA D. T., Gok O.
BIORESOURCETECHNOLOGY, vol.101, no.3, pp.914-924, 2010 (SCI-Expanded)
- XXXVI. **Relationships between anaerobic consortia and removal efficiencies in an UASB reactor degrading 2,4 DCP**
SPONZA D. T., CIGAL C.
DESALINATION, vol.245, pp.1-18, 2009 (SCI-Expanded)
- XXXVII. **Effect of increasing nitrobenzene loading rates on the performance of anaerobic migrating blanket reactor and sequential anaerobic migrating blanket reactor/completely stirred tank reactor system**
KUSCU O. S., SPONZA D. T.
JOURNAL OF HAZARDOUS MATERIALS, vol.168, no.1, pp.390-399, 2009 (SCI-Expanded)
- XXXVIII. **Effects of nitrobenzene concentration and hydraulic retention time on the treatment of nitrobenzene in sequential anaerobic baffled reactor (ABR)/continuously stirred tank reactor (CSTR) system**
KUSCU O. S., SPONZA D. T.
BIORESOURCETECHNOLOGY, vol.100, no.7, pp.2162-2170, 2009 (SCI-Expanded)
- XXXIX. **Effect of Increasing Nitrobenzene Loading Rates on the Performance of AMBR and Sequential AMBR/CSTR Reactor System**
KUSCU O. S., SPONZA D. T.
JOURNAL OF ENVIRONMENTAL ENGINEERING, vol.135, no.4, pp.266-278, 2009 (SCI-Expanded)
- XL. **Kinetics of para-nitrophenol and chemical oxygen demand removal from synthetic wastewater in an anaerobic migrating blanket reactor**
SELÇUK KUŞÇU Ö., SPONZA D. T.
JOURNAL OF HAZARDOUS MATERIALS, vol.161, pp.787-799, 2009 (SCI-Expanded)
- XLI. **Treatability of atrazine in a simulated DEPHANOX process**
SPONZA D. T., ATALAY H.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.44, no.3, pp.307-315, 2009 (SCI-Expanded)
- XLII. **Effects of shock 2,4-dichlorophenol (DCP) and cod loading rates on the removal of 2,4-DCP in a sequential upflow anaerobic sludge blanket/aerobic completely stirred tank reactor system**
ULUKOY A., SPONZA D. T.
ENVIRONMENTAL TECHNOLOGY, vol.29, no.4, pp.413-421, 2008 (SCI-Expanded)
- XLIII. **Anaerobic/aerobic treatment of a simulated textile wastewater**
IŞIK M., SPONZA D. T.
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- XLIV. **Relationships between anaerobic consortia and removal efficiencies in an UASB reactor degrading 2,4 dichlorophenol (DCP)**
SPONZA D. T., CIGAL C.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.87, no.1, pp.177-192, 2008 (SCI-Expanded)
- XLV. **Sequential anaerobic, aerobic/anoxic treatment of simulated landfill leachate**
AGDAG O. N., SPONZA D. T.
ENVIRONMENTAL TECHNOLOGY, vol.29, no.2, pp.183-197, 2008 (SCI-Expanded)
- XLVI. **Kinetic of carbonaceous substrate in an upflow anaerobic sludge sludge blanket (UASB) reactor treating 2,4 dichlorophenol (2,4 DCP)**
SPONZA D. T., ULUKOY A.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.86, no.1, pp.121-131, 2008 (SCI-Expanded)
- XLVII. **Treatability of sulfamerazine in sequential upflow anaerobic sludge blanket reactor (UASB)/completely stirred tank reactor (CSTR) processes**
SPONZA D. T., DEMIRDEN P.
SEPARATION AND PURIFICATION TECHNOLOGY, vol.56, no.1, pp.108-117, 2007 (SCI-Expanded)
- XLVIII. **Performance of p-nitrophenol (p-NP) fed sequential anaerobic migrating blanket reactor (AMBR)/aerobic completely stirred tank reactor (CSTR) system under increasing organic loading conditions**
KUSCU O. S., SPONZA D. T.
ENZYME AND MICROBIAL TECHNOLOGY, vol.40, no.5, pp.1026-1034, 2007 (SCI-Expanded)
- XLIX. **Effects of hydraulic retention time (HRT) and sludge retention time (SRT) on the treatment of nitrobenzene in AMBR/CSTR reactor systems**
KUSCU O. S., SPONZA D. T.
ENVIRONMENTAL TECHNOLOGY, vol.28, no.3, pp.285-296, 2007 (SCI-Expanded)

- L. **Fate and toxicity of azo dye metabolites under batch long-term anaerobic incubations**
Isik M, SPONZA D. T.
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- LI. **Co-digestion of mixed industrial sludge with municipal solid wastes in anaerobic simulated landfilling bioreactors**
Agdag O. N., SPONZA D. T.
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- LII. **Effects of nitrobenzene concentrations and hydraulic retention time on the treatment of nitrobenzene in sequential anaerobic baffled reactor and continuously stirred tank reactor system**
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- LIIL. **Toxicity studies in a chemical dye production industry in Turkey**
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- LIV. **Treatment of 2,4 dichlorophenol (DCP) in a sequential anaerobic (upflow anaerobic sludge blanket) aerobic (completely stirred tank) reactor system at increasing organic loading rates**
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- LV. **Treatment efficiencies of a sequential anaerobic baffled reactor (ABR)/completely stirred tank reactor (CSTR) system at increasing p-nitrophenol and COD loading rates**
Kuscu O. S., SPONZA D. T.
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- LVI. **Biological treatment of acid dyeing wastewater using a sequential anaerobic/aerobic reactor system**
Isik M, SPONZA D. T.
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- LVII. **Evaluation of aquatic toxicity in wastewater of a dye-producing factory in Turkey**
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- LVIII. **Simultaneous toxicity and nutrient removals in simulated dephanox (anaerobic/anoxic/oxic sequentials) process treating antibiotics**
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- LIX. **Treatment of 2,4-dichlorophenol (DCP) in a sequential anaerobic (upflow anaerobic sludge blanket) aerobic (completely stirred tank) reactor system**
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- LX. **Toxicity and intermediates of CI Direct Red 28 dye through sequential anaerobic/aerobic treatment**
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- LXI. **Performance of anaerobic baffled reactor (ABR) treating synthetic wastewater containing p-nitrophenol**
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ENZYME AND MICROBIAL TECHNOLOGY, vol.36, no.7, pp.888-895, 2005 (SCI-Expanded)
- LXII. **Effect of alkalinity on the performance of a simulated landfill bioreactor digesting organic solid wastes**
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- LXIII. **Co-digestion of industrial sludge with municipal solid wastes in anaerobic simulated landfilling reactors**
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PROCESS BIOCHEMISTRY, vol.40, no.5, pp.1871-1879, 2005 (SCI-Expanded)
- LXIV. **p-nitrophenol removal in a sequential anaerobic migrating blanket reactor (AMBR)/aerobic completely stirred tank reactor (CSTR) system**
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PROCESS BIOCHEMISTRY, vol.40, no.5, pp.1679-1691, 2005 (SCI-Expanded)
- LXV. **Substrate removal kinetics in an upflow anaerobic sludge blanket reactor decolorising simulated textile wastewater**
Isik M., SPONZA D. T.
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- LXVI. **Biotransformation of carbon tetrachloride and anaerobic granulation in a upflow anaerobic sludge blanket reactor**
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- LXVII. **Effects of alkalinity and co-substrate on the performance of an upflow anaerobic sludge blanket (UASB) reactor through decolorization of Congo Red azo dye**
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- LXVIII. **Influence of nitrate and COD on phosphorus and nitrogen removals under batch methanogenic and denitrifying conditions**
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- LXIX. **A batch study for assessing the inhibition effect of Direct Yellow 12 in a mixed methanogenic culture**
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- LXX. **Anaerobic/aerobic treatment of municipal landfill leachate in sequential two-stage up-flow anaerobic sludge blanket reactor (UASB)/completely stirred tank reactor (CSTR) systems**
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- LXXI. **Effects of shredding of wastes on the treatment of municipal solid wastes (MSWs) in simulated anaerobic recycled reactors**
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- LXXII. **Treatment of trichlorotoluene in an anaerobic/aerobic sequential reactor system**
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- LXXIII. **Reactor performances and fate of aromatic amines through decolorization of Direct Black 38 dye under anaerobic/aerobic sequentials**
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Memberships and Roles in Scientific Organizations

International Association of Environmental Scientists and Professionals (IAESP) , Member, 2021 - Continues, Turkey

Metrics

Publication: 384
Citation (WoS): 3321
Citation (Scopus): 3824
H-Index (WoS): 32
H-Index (Scopus): 34