

Prof. BARIŞ ÇALLI

Personal Information

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Biography

Professor of Environmental Engineering Department of Marmara University in Istanbul, Turkey. Received his Ph.D. degree in 2003 in Environmental Technology from Bogaziçi University in Istanbul. In 2006, awarded a Marie Curie Intra European Fellowship and participated in a research project in VITO, Belgium on fermentative hydrogen production from waste biomass. Since 2008, working as a full-time professor at Marmara University and has been involved in many research projects on environmental engineering bioprocesses, anaerobic digestion and biogas technology, resource recovery, and solid waste management.

Education Information

Doctorate, Boğaziçi Üniversitesi, Çevre Bilimleri Enstitüsü, Çevre Teknolojisi Anabilim Dalı, Turkey 1999 - 2003

Postgraduate, Marmara University, Faculty of Engineering, Environmental Engineering, Turkey 1997 - 1999

Undergraduate, Marmara University, Faculty of Engineering, Environmental Engineering, Turkey 1993 - 1997

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Elucidation of ammonia inhibition in anaerobic treatment process by using 16S rRNA/DNA based microbial identification techniques, Boğaziçi Üniversitesi, Çevre Bilimleri Enstitüsü, Çevre Teknolojisi Anabilim Dalı, 2003

Postgraduate, Anaerobic and Aerobic Treatment of Sanitary Landfill Leachate, Marmara University, Faculty of Engineering, Çevre Mühendisliği Bölümü, 1999

Research Areas

Environmental Technology, Industrial and Hazardous Waste Management, Solid Waste Engineering and Management, Water Pollution and Control, Hazardous Waste Management

Academic Titles / Tasks

Professor, Marmara University, Faculty Of Engineering, Environmental Engineering, 2011 - Continues

Associate Professor, Marmara University, Faculty Of Engineering, Environmental Engineering, 2006 - 2011

Assistant Professor, Marmara University, Faculty Of Engineering, Environmental Engineering, 2005 - 2006
Research Assistant, Marmara University, Faculty Of Engineering, Environmental Engineering, 1997 - 2005

Academic and Administrative Experience

Head of Department, Marmara University, Faculty of Engineering, Environmental Engineering, 2018 - 2020
Deputy Head of Department, Marmara University, Faculty of Engineering, Environmental Engineering, 2011 - 2018
Director of the Center, Marmara University, Rectorate, 2012 - 2015

Courses

Advanced Anaerobic Treatment, Doctorate, 2019 - 2020
Engineering Project I, Undergraduate, 2020 - 2021
SOLID WASTE ENGINEERING, Undergraduate, 2019 - 2020
Anaerobic Biotechnology for Bioenergy Production, Postgraduate, 2019 - 2020
HAZARDOUS AND SPECIAL WASTE MANAGEMENT, Undergraduate, 2019 - 2020

Advising Theses

ÇALLI B., Anaerobic chicken manure digestion coupled with ammonia separation, Doctorate, A.BAYRAKDAR(Student), 2018
ÇALLI B., Desulfurization of biogas using a membrane bio-scrubber, Doctorate, E.TILAHUN(Student), 2018
ÇALLI B., Removal and recovery of ammonia from chicken manure, Postgraduate, R.ÖNDER(Student), 2016
ÇALLI B., Effect of trace metals in anaerobic digestion of chicken manure, Postgraduate, R.MOLAEY(Student), 2015
ÇALLI B., Türkiye'de tehlikeli atık oluşumu ve bertarafı, Postgraduate, Ş.TAŞKAN(Student), 2013
ÇALLI B., Ambalaj atıkları yönetimi- İstanbul, Kadıköy örneği, Postgraduate, A.ŞEYMA(Student), 2013
CAN Z. S. , ÇALLI B., CFC-11 amount in polyurethane foam in end-of-life refrigerators, Postgraduate, B.YAZICI(Student), 2012
CAN Z. S. , ÇALLI B., Evaluation of hazardous wastes generated from automotive industry in Turkey and their disposal methods, Postgraduate, B.YAZICI(Student), 2011
ÇALLI B., Composting of cattle manure, Postgraduate, M.SİNAN(Student), 2011
Birbir M., Çallı B., Mikrobiyal yakıt hücrelerinde (MYH) bulunan aktif türlerin tespiti, Postgraduate, E.YILMAZ(Student), 2011
ÇALLI B., Investigation of Bursa hamitler landfill leachate treatment plant, Postgraduate, K.KAŞIKÇI(Student), 2010
ÇALLI B., Use of microbial fuel cells (MFCs) in organic wastewater treatment, Postgraduate, P.ÇAVDAR(Student), 2009
ÇALLI B., Identification of prevalent microbial communities in municipal solid waste landfill leachate, Postgraduate, S.DURMAZ(Student), 2005
ÇALLI B., Identification of prevalent microbial communities in municipal solid wastel landfill leachate, Postgraduate, S.Durmaz(Student), 2005
ÇALLI B., Relations between landfill stabilization and microbial diversity, Postgraduate, E.GİRGİN(Student), 2004

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

- I. **Removal and recovery of heavy metals from sewage sludge via three-stage integrated process**
YEŞİL H., Molaey R., ÇALLI B., TUĞTAŞ KARNABAT A. E.
Chemosphere, vol.280, 2021 (Journal Indexed in SCI Expanded)
- II. **Enhanced heavy metal leaching from sewage sludge through anaerobic fermentation and air-assisted ultrasonication**

- Molaey R., YEŞİL H., ÇALLI B., TUĞTAŞ KARNABAT A. E.
Chemosphere, vol.279, 2021 (Journal Indexed in SCI Expanded)
- III. **Extent of bioleaching and bioavailability reduction of potentially toxic heavy metals from sewage sludge through pH-controlled fermentation**
YEŞİL H., Molaey R., ÇALLI B., TUĞTAŞ KARNABAT A. E.
Water Research, vol.201, 2021 (Journal Indexed in SCI Expanded)
- IV. **Prokaryotic Communities in the Thalassohaline Tuz Lake, Deep Zone, and Kayacik, Kaldirim and Yavsan Salterns (Turkey) Assessed by 16S rRNA Amplicon Sequencing**
Akpolat C., Beatriz Fernandez A., ÇAĞLAYAN P., ÇALLI B., BİR BİR M., Ventosa A.
MICROORGANISMS, vol.9, no.7, 2021 (Journal Indexed in SCI)
- V. **Influence of volatile fatty acids in anaerobic bioleaching of potentially toxic metals**
Molaey R., YEŞİL H., ÇALLI B., TUĞTAŞ KARNABAT A. E.
Journal of Environmental Management, vol.285, 2021 (Journal Indexed in SCI)
- VI. **A hybrid dry-fermentation and membrane contactor system: Enhanced volatile fatty acid (VFA) production and recovery from organic solid wastes**
YEŞİL H., ÇALLI B., TUĞTAŞ KARNABAT A. E.
Water Research, vol.192, 2021 (Journal Indexed in SCI)
- VII. **How do the influent COD/Nitrogen and internal recirculation ratios affect the oxidation ditch type pre-anoxic landfill leachate treatment?**
Cakirgoz M., BAYRAKDAR A., ÇALLI B.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.278, 2021 (Journal Indexed in SCI)
- VIII. **Recovery of phosphorus from liquid digestate using waste magnesite dust**
Al-Mallahi J., Surmeli R. O. , ÇALLI B.
JOURNAL OF CLEANER PRODUCTION, vol.272, 2020 (Journal Indexed in SCI)
- IX. **Treatment of synthetic wastewater and cheese whey by the anaerobic dynamic membrane bioreactor**
Pacal M., SEMERCİ N., ÇALLI B.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.32, pp.32942-32956, 2019 (Journal Indexed in SCI)
- X. **Phosphorus recovery from sewage sludge ash with bioleaching and electro dialysis**
SEMERCİ N., Kunt B., ÇALLI B.
International Biodeterioration and Biodegradation, vol.144, 2019 (Journal Indexed in SCI)
- XI. **Simultaneous nitrate and sulfide removal using a bio-electrochemical system**
Bayrakdar A., Tilahun E., ÇALLI B.
BIOELECTROCHEMISTRY, vol.129, pp.228-234, 2019 (Journal Indexed in SCI)
- XII. **Synergistic Effect of Sulfide and Ammonia on Anaerobic Digestion of Chicken Manure**
Surmeli R. O. , Bayrakdar A., Molaey R., ÇALLI B.
WASTE AND BIOMASS VALORIZATION, vol.10, no.3, pp.609-615, 2019 (Journal Indexed in SCI)
- XIII. **Anaerobic digestion of chicken manure: Influence of trace element supplementation**
Molaey R., Bayrakdar A., Surmeli R. O. , ÇALLI B.
ENGINEERING IN LIFE SCIENCES, vol.19, no.2, pp.143-150, 2019 (Journal Indexed in SCI)
- XIV. **Effect of Operating Conditions on Separation of H₂S from Biogas Using a Chemical Assisted PDMS Membrane Process**
Tilahun E., ŞAHİNKAYA E., ÇALLI B.
WASTE AND BIOMASS VALORIZATION, vol.9, no.12, pp.2349-2359, 2018 (Journal Indexed in SCI)
- XV. **Upflow packed bed Anammox reactor used in two-stage deammonification of sludge digester effluent**
Celen-Erdem I., Kurt E. S. , Bozcelik B., Calli B.
WATER SCIENCE AND TECHNOLOGY, vol.78, no.9, pp.1843-1851, 2018 (Journal Indexed in SCI)
- XVI. **Long-term influence of trace element deficiency on anaerobic mono-digestion of chicken manure**
Molaey R., Bayrakdar A., ÇALLI B.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.223, pp.743-748, 2018 (Journal Indexed in SCI)
- XVII. **Ammonia recovery from chicken manure digestate using polydimethylsiloxane membrane contactor**

- Surmeli R. O. , Bayrakdar A., ÇALLI B.
JOURNAL OF CLEANER PRODUCTION, vol.191, pp.99-104, 2018 (Journal Indexed in SCI)
- XVIII. **Anaerobic digestion of chicken manure by a leach-bed process coupled with side-stream membrane ammonia separation**
Bayrakdar A., Surmeli R. O. , ÇALLI B.
BIORESOURCE TECHNOLOGY, vol.258, pp.41-47, 2018 (Journal Indexed in SCI)
- XIX. **Influence of trace element supplementation on anaerobic digestion of chicken manure: Linking process stability to methanogenic population dynamics**
Molaey R., Bayrakdar A., Surmeli R. O. , ÇALLI B.
JOURNAL OF CLEANER PRODUCTION, vol.181, pp.794-800, 2018 (Journal Indexed in SCI)
- XX. **A hybrid membrane gas absorption and bio-oxidation process for the removal of hydrogen sulfide from biogas**
Tilahun E., Sahinkaya E., ÇALLI B.
INTERNATIONAL BIODETERIORATION & BIODEGRADATION, vol.127, pp.69-76, 2018 (Journal Indexed in SCI)
- XXI. **Anaerobic digestion of chicken manure: Mitigating process inhibition at high ammonia concentrations by selenium supplementation**
Molaey R., Bayrakdar A., Surmeli R. O. , ÇALLI B.
BIOMASS & BIOENERGY, vol.108, pp.439-446, 2018 (Journal Indexed in SCI)
- XXII. **Removal and Recovery of Metals by Using Bio-electrochemical System**
Tugtas A. E. , ÇALLI B.
MICROBIAL FUEL CELL: A BIOELECTROCHEMICAL SYSTEM THAT CONVERTS WASTE TO WATTS, pp.307-333, 2018 (Journal Indexed in SCI)
- XXIII. **Dry anaerobic digestion of chicken manure coupled with membrane separation of ammonia**
Bayrakdar A., Surmeli R. O. , ÇALLI B.
BIORESOURCE TECHNOLOGY, vol.244, pp.816-823, 2017 (Journal Indexed in SCI)
- XXIV. **Removal and recovery of ammonia from chicken manure**
Surmeli R. O. , Bayrakdar A., Calli B.
WATER SCIENCE AND TECHNOLOGY, vol.75, no.12, pp.2811-2817, 2017 (Journal Indexed in SCI)
- XXV. **Biogas production from chicken manure: Co-digestion with spent poppy straw**
Bayrakdar A., Molaey R., Surmeli R. O. , ŞAHİNKAYA E., ÇALLI B.
INTERNATIONAL BIODETERIORATION & BIODEGRADATION, vol.119, pp.205-210, 2017 (Journal Indexed in SCI)
- XXVI. **Performance of polydimethylsiloxane membrane contactor process for selective hydrogen sulfide removal from biogas**
Tilahun E., Bayrakdar A., ŞAHİNKAYA E., ÇALLI B.
WASTE MANAGEMENT, vol.61, pp.250-257, 2017 (Journal Indexed in SCI)
- XXVII. **Polyhydroxyalkanoate production from moderately halophilic Bacillus strains**
Ogan A., Fetahovic M., Çağlayan P., Birbir M., Çallı B., Bayrakdar A., Daniş Ö.
Febs Journal, vol.284, pp.106, 2017 (Journal Indexed in SCI Expanded)
- XXVIII. **Biogas desulfurization using autotrophic denitrification process**
Bayrakdar A., Tilahun E., ÇALLI B.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.100, no.2, pp.939-948, 2016 (Journal Indexed in SCI)
- XXIX. **Prediction of future disposal of end-of-life refrigerators containing CFC-11**
Yazici B., CAN Z. S. , Calli B.
WASTE MANAGEMENT, vol.34, no.1, pp.162-166, 2014 (Journal Indexed in SCI)
- XXX. **Anaerobic fermentation of organic solid wastes: volatile fatty acid production and separation**
Yesil H., Tugtas A. E. , Bayrakdar A., Calli B.
WATER SCIENCE AND TECHNOLOGY, vol.69, no.10, pp.2132-2138, 2014 (Journal Indexed in SCI)
- XXXI. **Bio-electrochemical post-treatment of anaerobically treated landfill leachate**
TUĞTAŞ KARNABAT A. E. , ÇAVDAR P. , ÇALLI B.
BIORESOURCE TECHNOLOGY, vol.128, pp.266-272, 2013 (Journal Indexed in SCI)
- XXXII. **Continuous flow membrane-less air cathode microbial fuel cell with spunbonded olefin diffusion**

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TUĞTAŞ KARNABAT A. E. , ÇAVDAR P., ÇALLI B.

BIORESOURCETECHNOLOGY, vol.102, no.22, pp.10425-10430, 2011 (Journal Indexed in SCI)

- XXXIII. **Acidogenic fermentation of municipal solid waste and its application to bio-electricity production via microbial fuel cells (MFCs)**
ÇAVDAR P., YILMAZ E., Tugtas A. E. , ÇALLI B.
WATER SCIENCE AND TECHNOLOGY, vol.64, no.4, pp.789-795, 2011 (Journal Indexed in SCI)
- XXXIV. **H-2 production potential in thermophilic mixed fermentation**
ÇALLI B., Chung L., Arslan D., Vanbroekhoven K.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.44, no.1, pp.78-86, 2009 (Journal Indexed in SCI)
- XXXV. **Monitoring of population shifts in an enriched nitrifying system under gradually increased cadmium loading**
MERTOĞLU B., SEMERCİ N., Guler N., ÇALLI B., ÇEÇEN F., Saatc A. M.
JOURNAL OF HAZARDOUS MATERIALS, vol.160, pp.495-501, 2008 (Journal Indexed in SCI)
- XXXVI. **Dark fermentative H-2 production from xylose and lactose - Effects of on-line pH control**
Calli B., Schoenmaekers K., Vanbroekhoven K., Diels L.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.33, no.2, pp.522-530, 2008 (Journal Indexed in SCI)
- XXXVII. **Significance of acetogenic H-2 consumption in dark fermentation and effectiveness of pH**
Calli B., Zhao J., Nijssen E., Vanbroekhoven K.
WATER SCIENCE AND TECHNOLOGY, vol.57, no.6, pp.809-814, 2008 (Journal Indexed in SCI)
- XXXVIII. **Effects of insufficient air injection on methanogenic Archaea in landfill bioreactor**
Mertoglu B., Calli B., Guler N., Inanc B., Inoue Y.
JOURNAL OF HAZARDOUS MATERIALS, vol.142, pp.258-265, 2007 (Journal Indexed in SCI)
- XXXIX. **Extremely halophilic Archaea from Tuz Lake, Turkey, and the adjacent Kaldirim and Kayacik salterns**
Birbir M., Calli B., Mertoglu B., Bardavid R. E. , Oren A., Ogmen M. N. , Ogan A.
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.23, pp.309-316, 2007 (Journal Indexed in SCI)
- XL. **Evaluation of in situ ammonia removal in an aerated landfill bioreactor**
Mertoglu B., Calli B., Inanc B., Ozturk I.
PROCESS BIOCHEMISTRY, vol.41, no.12, pp.2359-2366, 2006 (Journal Indexed in SCI)
- XLI. **Comparison of long-term performances and final microbial compositions of anaerobic reactors treating landfill leachate**
Calli B., Mertoglu B., Roest K., Inanc B.
BIORESOURCETECHNOLOGY, vol.97, no.4, pp.641-647, 2006 (Journal Indexed in SCI)
- XLII. **Identification of prevalent microbial communities in a municipal solid waste landfill**
Calli B., Durmaz S., Mertoglu B.
WATER SCIENCE AND TECHNOLOGY, vol.53, no.8, pp.139-147, 2006 (Journal Indexed in SCI)
- XLIII. **Methanogenic diversity in anaerobic bioreactors under extremely high ammonia levels**
Calli B., Mertoglu B., Inanc B., Yenigun O.
ENZYMES AND MICROBIAL TECHNOLOGY, vol.37, no.4, pp.448-455, 2005 (Journal Indexed in SCI)
- XLIV. **Landfill leachate management in Istanbul: applications and alternatives**
Calli B., Mertoglu B., Inanc B.
CHEMOSPHERE, vol.59, no.6, pp.819-829, 2005 (Journal Indexed in SCI)
- XLV. **Effects of high free ammonia concentrations on the performances of anaerobic bioreactors**
Calli B., Mertoglu B., Inanc B., Yenigun O.
PROCESS BIOCHEMISTRY, vol.40, pp.1285-1292, 2005 (Journal Indexed in SCI)
- XLVI. **Community changes during start-up in methanogenic bioreactors exposed to increasing levels of ammonia**
Calli B., Mertoglu B., Inanc B., Yenigun O.
ENVIRONMENTAL TECHNOLOGY, vol.26, no.1, pp.85-91, 2005 (Journal Indexed in SCI)
- XLVII. **Comparative analysis of nitrifying bacteria in full-scale oxidation ditch and aerated nitrification**

biofilter by using fluorescent in situ hybridization (FISH) and denaturing gradient gel electrophoresis (DGGE)

Mertoglu B., Calli B., Girgin E., Inanc B., Ozturk I.

JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.40, no.5, pp.937-948, 2005 (Journal Indexed in SCI)

XLVIII. Microbial analysis of leachate using fluorescent in situ hybridization (fish) technique to evaluate the landfill stability

Calli B., Girgin E.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.14, no.8, pp.737-745, 2005 (Journal Indexed in SCI)

XLIX. Ammonia and pH inhibition in anaerobic treatment of wastewaters, part I: Experimental

Eldem N. Ö., Öztürk İ., Soyer E., ÇALLI B., AKGİRAY Ö.

Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, vol.39, no.9, pp.2405-2420, 2004 (Journal Indexed in SCI)

L. Ammonia and pH inhibition in anaerobic treatment of wastewaters, part II: Model development

Eldem N. Ö., AKGİRAY Ö., Öztürk İ., Soyer E., ÇALLI B.

Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, vol.39, no.9, pp.2421-2435, 2004 (Journal Indexed in SCI)

LI. Enzyme characteristics of extremely halophilic archaeal community in Tuzkoy Salt Mine, Turkey

Birbir M., Ogan A., Calli B., Mertoglu B.

WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.20, no.6, pp.613-621, 2004 (Journal Indexed in SCI)

LII. Ammonia and pH inhibition in anaerobic treatment of wastewaters, part II: Model development

Eldem N., Akgiray O., Ozturk I., Soyer E., Calli B.

JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.39, no.9, pp.2421-2435, 2004 (Journal Indexed in SCI)

LIII. Ammonia and pH inhibition in anaerobic treatment of wastewaters, part I: Experimental

Eldem N., Ozturk I., Soyer E., Calli B., Akgiray O.

JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.39, no.9, pp.2405-2420, 2004 (Journal Indexed in SCI)

LIV. Inactivation of coliform bacteria in Black Sea waters due to solar radiation

Yukselen M., Calli B., Gokyay O., Saatci A.

ENVIRONMENT INTERNATIONAL, vol.29, no.1, pp.45-50, 2003 (Journal Indexed in SCI)

LV. Molecular analysis of microbial communities in nitrification and denitrification reactors treating high ammonia leachate

Calli B., Tas N., Mertoglu B., Inanc B., Ozturk I.

JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.38, no.10, pp.1997-2007, 2003 (Journal Indexed in SCI)

LVI. Investigation of variations in microbial diversity in anaerobic reactors treating landfill leachate

Calli B., Mertoglu B., Tas N., Inanc B., Yenigun B., Yenigun O., Ozturk I.

WATER SCIENCE AND TECHNOLOGY, vol.48, no.4, pp.105-112, 2003 (Journal Indexed in SCI)

LVII. Anaerobic treatment by a hybrid reactor

Calli B., Yukselen M.

ENVIRONMENTAL ENGINEERING SCIENCE, vol.19, no.3, pp.143-150, 2002 (Journal Indexed in SCI)

LVIII. Toxicity assessment on combined biological treatment of pharmaceutical industry effluents

Inanc B., Calli B., Alp K., Ciner F., Mertoglu B., Ozturk I.

WATER SCIENCE AND TECHNOLOGY, vol.45, no.12, pp.135-142, 2002 (Journal Indexed in SCI)

LIX. Characterization and anaerobic treatment of the sanitary landfill leachate in Istanbul

Inanc B., Calli B., Saatci A.

WATER SCIENCE AND TECHNOLOGY, vol.41, no.3, pp.223-230, 2000 (Journal Indexed in SCI)

Books & Book Chapters

- I. **Removal and Recovery of Metals by Using Bio-electrochemical System.**
Tuğtaş Karnabat A. E. , Çallı B.
in: Microbial Fuel Cell A Bioelectrochemical System that Converts Waste to Watts, Debabrata Das, Editor, Springer-Verlag , New-York, pp.307-333, 2018
- II. **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
- III. **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
- IV. **Atıksu Arıtma Çamurlarının İşlenmesi ve Bertarafı**
Öztürk İ., Çallı B., Çallı B., Arıkan O. A. , Altınbaş M.
Türkiye Belediyeler Birliği, Ankara, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **Heat-Assisted Vacuum Disintegration of Waste Activated Sludge for Improved Biogas Production**
Kaplan Ö., AKGÜL D., ÇALLI B.
Euresia Waste Management Symposium, 26 - 28 October 2020
- II. **Reduction of heavy metals from waste activated sludge via anaerobic fermentation and chemical post treatment for land application**
MOLAEY R., YEŞİL H., ÇALLI B., TUĞTAŞ KARNABAT A. E.
2020 11th International Conference on Environmental Science and Development, Barcelona, Spain, 10 - 12 February 2020
- III. **Effect of Influent C/N Ratio and Internal Recirculation Rate on the Performance of an Oxidation Ditch Type Pre-Anoxic Landfill Leachate MBR system**
Çakırgöz M., BAYRAKDAR A., ÇALLI B.
6th MEMTEK International Symposium on Membrane Technologies an Applications, 18 - 20 December 2019
- IV. **Biorecovery of phosphorus from sewage sludge ash using sulfur oxidizing bacteria**
SEMERCİ N., KUNT B., ÇALLI B.
ABWET - G16, 6 - 07 December 2018
- V. **Simultaneous nitrate and sulfide removal using a bio-electrochemical system**
BAYRAKDAR A., TİLAHUN E., ÇALLI B.
Joint G16 – ABWET conference, 6 - 07 December 2018
- VI. **Assessment of Energy Efficiency in Wastewater**
SEMERCİ N., ÇALLI B.
Recycle and Reuse 2018, 24 - 26 October 2018
- VII. **Nitrogen and Phosphorus Recovery from the Liquid Fraction of Anaerobic Chicken Manure Digestate**
Almallahi J., SÜRMEİ R. Ö. , ÇALLI B.
4th International Conference on Recycling and Reuse, 24 - 26 October 2018
- VIII. **Ammonia recovery from liquid fraction of chicken manure digestate**
BAYRAKDAR A., SÜRMEİ R. Ö. , ÇALLI B.
3rd International Conference on Civil and Environmental Engineering, İzmir, Turkey, 24 - 27 April 2018
- IX. **Influence of Trace Elements on Methanogenic Pathways at High Ammonium Concentrations**
MOLAEY R., BAYRAKDAR A., SÜRMEİ R. Ö. , ÇALLI B.

1st International Congress on Metals in Anaerobic Biotechnologies, 4 - 06 October 2017

- X. **Influence of trace element supplementation on anaerobic mono-digestion of chicken manure**
BAYRAKDAR A., MOLAËY R., SÜRMEĻİ R. Ö. , ÇALLI B.
1st International Congress on Metals in Anaerobic Digestion, IMAB17, 4 - 06 October 2017
- XI. **Polyhydroxyalkanoate production from moderately halophilic Bacillus strains**
OGAN A., Fetahovic M., ÇAĞLAYAN P., BİRBER M., ÇALLI B., Bayrakdar A., DANIŞ Ö.
42nd Febs Congress, 25 September 2018 - 30 September 2017
- XII. **Biyogazdan H₂S giderimi için Geliştirilen Membran-Biyo-Kontaktör Prosesinin Farklı Koşullarda Test Edilmesi**
Tilahun E., ŞAHİNKAYA E., ÇALLI B.
MEMTEK 2017-5. Ulusal Membran Teknolojileri ve Uygulamaları Sempozyumu, İstanbul, Turkey, 21 - 23 September 2017
- XIII. **Membran kontaktörle anaerobik çürütücü çıkış suyundan amonyak geri kazanımı**
BAYRAKDAR A., SÜRMEĻİ R. Ö. , ÇALLI B.
5.Ulusal Membran Teknolojileri ve Uygulama Sempozyumu, Turkey, 21 - 23 September 2017
- XIV. **Polyhydroxyalkanoate production from moderately halophilic Bacillus strains**
Ogan A., Fetahovic M., Caglayan P., Birbir M., Calli B., Bayrakdar A., Danis O.
42nd Congress of the Federation-of-European-Biochemical-Societies (FEBS) on From Molecules to Cells and Back, Jerusalem, Israel, 10 - 14 September 2017, vol.284, pp.106
- XV. **Biogas desulfurization using PDMS membrane in a gas-liquid contactor under slightly alkaline conditions: Optimization of Operational Parameters**
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Scholarships

EU 6th Framework Program Marie Curie Intra European Fellowship, European Commission, 2006 - 2008

BİDEB Doktora Sonrası Yurtdışı Araştırma Bursu, TUBITAK, 2005 - 2006

Awards

Çallı B., Marmara Üniversitesi Akademik Yayın 2018 Ödülü-Mühendislik Alanı, Marmara Üniversitesi, October 2019

Non Academic Experience

Other, VITO, Flemish Institute for Technological Research, Environment and Energy