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Language skills

Հայերեն Русский English

Publications

Article

Biotechnological potential of spent coffee grounds for biohydrogen production by Escherichia coli

Liana Vanyan, Hayarpi Aghekyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

International Journal of Hydrogen Energy 2025 1121-1131

Article

Fermentation of Sugar Beet Pulp by E. coli for Enhanced Biohydrogen and Biomass Production

Gayane Mikoyan, Liana Vanyan, Akerke Toleugazykyzy, Roza Bekbayeva, Kamila Baichiyeva, Kairat Bekbayev, Karen Trchounian

Energies 2025 2648

Article

Microbial Valorization of Sunflower Husk for Sustainable Biohydrogen and Biomass Production

Liana Vanyan, Akerke Toleugazykyzy, Kaisar Yegizbay, Ayaulym Daniyarova, Lyudmila Zuloyan, Gayane Mikoyan, Anait Vassilian, Anna Poladyan, Kairat Bekbayev, Karen Trchounian

Energies 2025 3885

Article

Evidence for bidirectional formic acid translocation in vivo via the Escherichia coli formate channel FocA

Liana Vanyan, Michelle Kammel, R Gary Sawers, Karen Trchounian

Archives of Biochemistry and Biophysics 2024 109877

Article

PROTON AND POTASSIUM FLUXES IN ESCHERICHIA COLI MUTANTS WITH DEFECTS IN SUBUNITS RESPONSIBLE FOR MATURATION OF HYD-1 AND HYD-2 DURING GLUCOSE FERMENTATION

L.M. Vanyan

Proceedings of the YSU B: Chemical and Biological Sciences 2024 54-67

Article

Glucose concentration is determinant for the functioning of hydrogenase 1 and hydrogenase

2 in regulating the proton and potassium fluxes in Escherichia coli at pH 7.5

Liana Vanyan, Karen Trchounian

Biochimie 2024 205-216

Article

HyfF subunit of hydrogenase 4 is crucial for regulating FOF1 dependent proton/potassium fluxes during fermentation of various concentrations of glucose

Liana Vanyan, Karen Trchounian

Journal of Bioenergetics and Biomembranes 2022 69-79

Article

Biogas and Biohydrogen Production Using Spent Coffee Grounds and Alcohol Production Waste

Liana Vanyan, Adam Cenian, Karen Trchounian

Energies 2022 5935

Article

Coffee silverskin as a substrate for biobased production of biomass and hydrogen by Escherichia coli

Satenik Mirzoyan, Hayarpi Aghekyan, Liana Vanyan, Anait Vassilian, Karen Trchounian

International Journal of Energy Research 2022 23110-23121

Article

INDUSTRIAL WASTE-BASED HYDROGEN PRODUCTION TECHNOLOGY: THE PROFITABILITY FOR INDUSTRIAL WASTE GENERATORS

Liana Vanyan, Heghine Gevorgyan, Hripsime Petrosyan, Armen Trchounian, Karen Trchounian

ԿԵՐԱԿԱԼԳԼՎՈՂ ԵՎ ՄԱՔՈՒՐ ԷԼԵՐԳԻԱՅԻ 7-ՐԴ ՄԻՋԱԶԳԱՅԻՆ ՀԱՄԱԺՈՂՈՎԻ ՆՅՈՒԹԵՐ 2021 56-59

Article

Defining the roles of the hydrogenase 3 and 4 subunits in hydrogen production during glucose fermentation: A new model of a H₂-producing hydrogenase complex

Hripsime Petrosyan, Liana Vanyan, Armen Trchounian, Karen Trchounian

International Journal of Hydrogen Energy 2020 5192-5201

Article

Roasted coffee wastes as a substrate for Escherichia coli to grow and produce hydrogen

Hripsime Petrosyan, Liana Vanyan, Satenik Mirzoyan, Armen Trchounian, Karen Trchounian

FEMS Microbiology Letters 2020 fnaa088 ,7ԷԶ

Conference

The Role of Escherichia coli FOF1 -ATPase and Hydrogenases on Specific Growth Rate During Glucose Fermentation

Karen Trchounian, Hripsime Petrosyan, Liana Vanyan, Armen Trchounian, Anait Vassilian

Conference

Interaction between Escherichia coli Hydrogenase-4 and FOF1- ATPase for proton translocation during fermentation of various glucose concentrations at slightly alkaline pH.

LIANA VANYAN, ARMEN TRCHOUNIAN, KAREN TRCHOUNIAN

Conference

Anaerobic Utilization of Spent Coffee Grounds (SCG) by E. Coli: the Importance of Pretreatment to Optimize Hydrogen and Biomass Generation

L. Vanyan, H. Aghekyan, K. Trchounian

Conference

NOVEL APPLICATION FOR ROASTED COFFEE WASTES AS A SUBSTRATE FOR DEVELOPMENT OF BIOFERTILIZERS

Liana Vanyan Manvel

Conference

Proton/potassium Fluxes Depend on Glucose Concentration in E. coli at pH 7.5

Liana Vanyan, Anait Vassilian, Karen Trchounian

Conference

Is FHL Complex Responsible for Sensing Glucose Concentration?

Liana Vanyan, Anait Vassilian, Karen Trchounian

Conference

Biohydrogen Production from Roasted Coffee Waste: Understanding the Role of E. coli Hydrogenases During Fermentation

S. Mirzoyan, L. Vanyan, H. Aghekyan, A. Poladyan, K. Trchounian

Conference

ՕՐԳԱՆԱԿԱՆ ԹԱՓՈՆՆԵՐԻՑ ԿԵՆՍԱԶԱՆԳՎԱԾԻ ԵՎ ԿԵՆՍԱՎԵՆԵՐԳԻԱՅԻ ՓՈԽԱԿԵՐՊՄԱՆ ԿԵՆՍԱՔԻՄԻԱԿԱՆ ՈՒՂԻՆԵՐԻ ԲՆՈՒԹԱԳՐՈՒՄԸ ԵՎ ՕՔՍԻԴԱԿԵՐԱԿԱՆԳՈՂԱԿԱՆ ԿԱՐԳԱՎՈՐՈՒՄԸ
Փոլադյան Ա.Ա., Գևորգյան Հ.Խ., Վանյան Լ.Մ., Բաբայան Ա.Ռ., Բաղդասարյան Լ.Հ., Վասիլյան Ա.Վ.,
Պետրոսյան Հ.Հ.

Conference

BIOTECHNOLOGICAL POTENTIAL OF SPENT COFFEE GROUNDS FOR LARGE-SCALE HYDROGEN PRODUCTION

Liana Vanyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

Conference

THE ROLE OF E. COLI HYDROGENASE-1 IN PROTON FLUX DURING GLUCOSE UTILIZATION AT PH 7.5

Liana Vanyan, Karen Trchounian

Conference

Understanding the Role of Escherichia coli Hydrogenase-2 subunits in proton flux under different glucose concentrations

Liana Vanyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

Conference

The effect of entire deletion of Hydrogenase-1 and 2 on proton flux during utilization of varied glucose concentration at pH 7.5

L. Vanyan, K. Trchounian

Conference

The role of the CRP global regulator in proton flux of Escherichia coli under different glucose concentrations

Liana Vanyan, Lilit Grigoryan, Karen Trchounian

Conference

Growth and Hydrogen Production of Escherichia Coli BW25113 in Mixtures of Sugar Beet Pulp and Sugar Beet Molasses

Gayane Mikoyan, Liana Vanyan, Karen Trchounian, Kamila Baichiyeva, Kaiser Yegizbay, Kairat Bekbayev
