

Կենսաբանության գիտահետազոտական ինստիտուտ

Մանրէաբանության, կենսաէներգետիկայի և կենսատեխնոլոգիայի
լաբորատորիա
Գիտաշխատող

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Growth and hydrogen production by *Escherichia coli* during utilization of sole and mixture of sugar beet, alcohol, and beer production waste

Kairat Bekbayev, Satenik Mirzoyan, Akerke Toleugazykyzy, Dinara Tlevlessova, Anait Vassilian, Anna Poladyan, Karen Trchounian
Biomass Conversion and Biorefinery 2024 909-919

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Relationship between proton/ potassium fluxes and central carbon catabolic pathways in different *Saccharomyces cerevisiae* strains under osmotic stress conditions

Anahit Shirvanyan, Satenik Mirzoyan, Karen Trchounian
Process Biochemistry 2023 309-318

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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

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HYDROGEN PRODUCTION AND UTILIZATION OF BREWERY SPENT GRAINS WASTE BY *Escherichia coli*

Satenik Mirzoyan, Armen Trchounian, Karen Trchounian

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PECULIARITIES OF GROWTH PARAMETERS OF *SACCHAROMYCES CEREVISIAE* UNDER DIFFERENT CONDITIONS

Anahit H. Shirvanyan, Satenik N. Mirzoyan, Karen A. Trchounian

Proceedings of the YSU B: Chemical and Biological Sciences 2021 255-265

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BIOMASS AND BIOHYDROGEN PRODUCTION BY *ESCHERICHIA COLI* UPON CONSUMPTION OF MEAT INDUSTRY AND LIGNOCELLULOSIC CORN WASTES MIXTURE

Syuzanna Bibulyan, Satenik Mirzoyan, Karen Trchounian, Anna Poladyan

Proceedings of the YSU B: Chemical and Biological Sciences 2021 224-231

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

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Enhanced hydrogen gas production from mixture of beer spent grains (BSG) and distiller's grains (DG) with glycerol by Escherichia coli

Satenik Mirzoyan, Akerke Toleugazykyzy, Kairat Bekbayev, Armen Trchounian, Karen Trchounian

International Journal of Hydrogen Energy 2020 17233-17240

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Hydrogen production by Escherichia coli during anaerobic utilization of mixture of lactose and glycerol: enhanced rate and yield, prolonged production

Satenik Mirzoyan, Armen Trchounian, Karen Trchounian

International Journal of Hydrogen Energy 2019 9272-9281

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H2 PRODUCTION AND ROLE OF HYDROGENASES IN ESCHERICHIA COLI BATCH CULTURES DURING FERMENTATION OF MIXTURE OF GLYCEROL AND ACETATE AT DIFFERENT pHs

Mirzoyan S.

Biological Journal of Armenia 2019 66-73

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Prolongation of H2 production during mixed carbon sources fermentation in E. coli batch cultures: New findings and role of different hydrogenases

Satenik Mirzoyan, Anait Vassilian, Armen Trchounian, Karen Trchounian

International Journal of Hydrogen Energy 2018 8739-8746

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Role of hydrogenases 3 and 4 in Escherichia coli growth and H2 producing hydrogenase activity during anaerobic utilization of lactose

Satenik Mirzoyan, Armen Trchounian, Karen Trchounian

International Journal of Hydrogen Energy 2018 18151-18159

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Evidence for hydrogenase-4 catalyzed biohydrogen production in Escherichia coli

Satenik Mirzoyan, Pablo Maria Romero-Pareja, Maria Dolores Coello, Armen Trchounian,

Karen Trchounian

International Journal of Hydrogen Energy 2017 21697-21703

<http://www.journals.elsevier.com/international-journal-of-hydrogen-energy/>

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Hydrogen production by Escherichia coli growing in different nutrient media with glycerol: Effects of formate, pH, production kinetics and hydrogenases involved

Karen Trchounian, Satenik Mirzoyan, Anna Poladyan, Armen Trchounian

International Journal of Hydrogen Energy 2017 24026-24034

<http://www.journals.elsevier.com/international-journal-of-hydrogen-energy/>

Գիտաժողովի նյութ

Effect of Different Substrates on Growth and Redox Potential Kinetics of Escherichia coli Wild

Type and Hydrogenases Lacking Mutant

Anna Poladyan, Satenik Mirzoyan, Armen Trchounian

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Hydrogen production by Escherichia coli wild type and hydrogenase mutants upon formate and glycerol fermentation under different growth conditions

A. Poladyan, S. Mirzoyan, K. Trchounian, A. Trchounian

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Growth and Hydrogen Production Properties of Escherichia Coli During Fermentation of the Mixture of Glucose, Glycerol and Formate at Di

K.Trchounian, S. Mirzoyan, P. Romero-Pareja, M. Coello, A. Vassilian, A. Trchounian

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COMPENSATORY H₂ PRODUCING ACTIVITY OF ESCHERICHIA COLI HYDROGENASES DURING MIXED CARBON SOURCES FERMENTATION

K. Trchounian, S. Mirzoyan, A. Vassilian, A. Trchounian

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H₂ PRODUCIION BY ESCHERICHIA COLI BATCH CULTURES DURING FERMENTATION OF GLYCEROL, LACTOSE AT DIFFERENT pHs

S. Mirzoyan, A. Poladyan, K. Trchounian, A. Trchounian

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H₂ production by Escherichia coli during utilization of lactose or mixture of lactose and glycerol: prolongation of production and role of hydrogenases 1 and 2 at different pH

Satenik Mirzoyan, Anait Vassilian, Armen Trchounian, Karen Trchounian

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Role of Acetate in Hydrogen producing Hydrogenase 3 Activity during Glycerol Fermentation in E. coli pH 7.5

S. Mirzoyan, A. Trchounian, K. Trchounian

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The impact of FOF1-ATPase on H₂ producing hydrogenase activity in Escherichia coli during mixed carbon sources fermentation

H. Gevorgyan, S. Mirzoyan, A. Trchounian, K. Trchounian

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The effect of the mixture acetate and glycerol on E. coli growth and H₂ production during fermentation

S. Mirzoyan, A. Trchounian, K. Trchounian

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The role of Escherichia coli hydrogenase 3 subunits in hydrogen production during fermentation of high glucose concentration at different pHs

Hripsime Petrosyan, Satenik Mirzoyan, Armen Trchounian, Karen Trchounian

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Role of dcu transporters in proton ATPase dependent proton flux during glucose

fermentation at pH 7.5

Karen Trchounian, Gayane Mikoyan, Lusine Karapetyan, Satenik Mirzoyan, Antonio Valle, Jorge Bolivar,

Armen Trchounian

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The role of several subunits of Escherichia coli hydrogenase 4 in hydrogen production during fermentation of various glucose concentrations at pH 7.5

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

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Role of F0F1-ATPase in H⁺ flux by Escherichia coli during lactose fermentation at different pHs

Satenik Mirzoyan, Armen Trchounian, Karen Trchounian

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Role of dcu C4-dicarboxylate transporters in H₂ production during fermentation of glucose or glycerol

Lusine Karapetyan, Satenik Mirzoyan, Antonio Valle, Jorge Bolivar, Armen Trchounian, Karen Trchounian

Գիտաժողովի նյութ

Utilization of tree leaves wastes and molecular hydrogen production by Escherichia coli

SATENIK MIRZOYAN, KAREN TRCHOUNIAN

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Prospects of industrial and kitchen wastes application in H₂ production

Mirzoyan S., Manoyan J., Gabrielyan L., Trchounian K.

Գիտաժողովի նյութ

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

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Optimization of Fruits Waste Pretreatment for E. coli Growth and H₂ Production

S. Mirzoyan, A. Vassilian, A. Poladyan, K. Trchounian

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Biomass and biohydrogen production by Escherichia coli upon consumption of meat and lignocellulosic waste mixture

Syuzanna Blbulyan, Anna Poladyan, Satenik Mirzoyan, Liana Mnatsakanyan, Karen Trchounian

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Potassium and proton ions transport during glucose fermentation in Saccharomyces cerevisiae under glycerol-induced osmotic stress at different pHs

A. Shirvanyan, S. Mirzoyan, K. Trchounian

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WINE GRAPE WASTE APPLICATION FOR ESCHERICHIA COLI BIOMASS AND H₂ PRODUCTION

Syuzanna Blbulyan, Lusine Baghdasaryan, Satenik Mirzoyan, Anahit Vassilian, Tatiana Semashko,

Anna Poladyan

Գիտաժողովի նյութ

Regulation of catalase and superoxide dismutase activities by sodium and potassium ions in *Saccharomyces cerevisiae*

A. Shirvanyan, S. Mirzoyan, K. Trchounian
