

Лиана Манвеловна Ванян

Научно-исследовательский институт биологии

Մանրէաբանության, կենսաէներգետիկայի և կենսատեխնոլոգիայի լաբորատորիա
Научный сотрудник

☎ 37494535101

✉ liana.vanyan@ysu.am



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Публикации

Статья

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

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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

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Microbial Valorization of Sunflower Husk for Sustainable Biohydrogen and Biomass Production

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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

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

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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

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

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

Liana Vanyan, Adam Cenian, Karen Trchounian

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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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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

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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

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

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ՕՐԳԱՆԱԿԱՆ ԹԱՓՈՆՆԵՐԻՑ ԿԵՆՍԱԶԱՆԳՎԱԾԻ ԵՎ ԿԵՆՍԱԷՆԵՐԳԻԱՅԻ 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.,
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BIOTECHNOLOGICAL POTENTIAL OF SPENT COFFEE GROUNDS FOR LARGE-SCALE HYDROGEN PRODUCTION

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

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

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