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🌐 Знание языков

Հայերեն Русский English

🔬 Научные интересы

- Биоэнергетика, Биохимия, Микробиология, Биотехнология

🏆 Государственные награды и почетные звания

2016 Премия Моррисона Рогозы Американского общества микробиологии (ASM)

2019 Серебряная медаль по случаю 100-летия ЕГУ

📖 Публикации

Статья

A novel, cost-effective approach for the production of hydrogenase enzymes and molecular hydrogen from recycled whey-based by-products

Meri Iskandaryan, Lusine Baghdasaryan, Ela Minasyan, Karen Trchounian, Antranikian Garabed,

Anna Poladyan

International Journal of Hydrogen Energy 2025 1191-1202

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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Redox regulation of hydrogen production in Escherichia coli during growth on by-products of the wine industry

Lusine Baghdasryan, Karen Trchounian, Gary Sawers, Anna Poladyan

Applied Microbiology and Biotechnology 2025 146

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Role of the FhIA transcriptional activator in metabolic changes in Escherichia coli during fermentation of mixed carbon sources at acidic pH

Heghine Gevorgyan, Marine Parsadanyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

Biochimie 2025 1-9

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Microbial Valorization of Sunflower Husk for Sustainable Biohydrogen and Biomass Production

Llana Vanyan, Akerke Toleugazykyzy, Kaiser Yegizbay, Ayaulym Daniyarova, Lyudmila Zulojan, Gayane Mikoyan, Anait Vassilian, Anna Poladyan, Kairat Bekbayev, Karen Trchounian
Energies 2025 3885

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Escherichia coli FocA/B-dependent H⁺ and K⁺ fluxes: Influence of exogenous versus endogenous formate

Lilit Grigoryan, Anush Babayan, Anait Vassilian, Anna Poladyan, Gary Sawers, Karen Trchounian
Biophysical Reports 2025 100225

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ՄԱՆԿԱՎԱՐԺՈՒԹՅՈՒՆ ԵՎ ԴԱՍԱՎԱՆԴՄԱՆ ՄԵԹՈԴԻԿԱ «ԼԵԳՈ ԼՈՒՐՋ ԽԱՂ»-Ի ՄԵԹՈԴԸ ԲՈՒՀԱՎԱՆ ՈՒՍՈՒՑՄԱՆ ՄԵՋ

ԱՆՆԱ ՓՈԼԱԴՅԱՆ

Հայկական պետական մանկավարժական համալսարանի գիտական տեղեկագիր 2025 99-108

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EFFECT OF THE PLANT TRIFOLIUM PRATENSE L. ON AMIDATION OF BRAIN PROTEINS IN RATS EXPOSED TO VIBRATION

I. A. BADALYAN, N. K. HAYRAPETYAN, A. A. POLADYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2025 36-42

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Conversion of spent coffee grounds into bioenergy and biomass using Clostridium species: A sustainable pathway for renewable energy

Rima Avetisyan, Hripsime Petrosyan, Akerke Toleugazykyzy, Bakytzhan Bolkenov, Roza Bekbayeva, Kairat Bekbayev, Karen Trchounian, Anna Poladyan

Industrial Crops and Products 2025 122068

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Biomass and bioethanol production from pretreated mixed fruit peel hydrolysate using Saccharomyces cerevisiae strains at different pH and oxygen conditions

Anahit Shirvanyan, Ayaulym Daniyarova, Anait Vassilian, Anna Poladyan, Gopalakrishnan Kumar, Duman Orynbekov, Kairat Bekbayev, Karen Trchounian

BMC Biotechnology 2025 136

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Gold nanoparticles activate hydrogenase synthesis and improve heterotrophic growth of Ralstonia eutropha H16

Tatevik Manutsyan, Syuzanna Blbulyan, Anait Vassilian, Tatiana Semashko, Gayane Kirakosyan, Lilit Gabrielyan, Karen Trchounian, Anna Poladyan

FEMS Microbiology Letters 2024 1-8

Статья

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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Role of the Escherichia coli FocA and FocB formate channels in controlling proton/potassium fluxes and hydrogen production during osmotic stress in energy-limited, stationary phase fermenting cells

Anush Babayan, Anait Vassilian, Anna Poladyan, Karen Trchounian

Biochimie 2024 91-98

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Proton conductance and regulation of proton/potassium fluxes in Escherichia coli FhIA-lacking cells during fermentation of mixed carbon sources

Heghine Gevorgyan, Anna Poladyan, Karen Trchounian, Anait Vassilian

Archives of Biochemistry and Biophysics 2024 109999

Статья

Development of an H₂ fuel cell electrochemical system powered by Escherichia coli cells

Torgom Seferyan, Lusine Baghdasaryan, Meri Iskandaryan, Karen Trchounian, Anna Poladyan

Electrochemistry Communications 2024 107746

Статья

The antimicrobial effects of silver nanoparticles obtained through the royal jelly on the yeasts Candida guilliermondii NP-4

Seda Marutyan, Hasmik Karapetyan, Lusine Khachatryan, Anna Muradyan, Syuzan Marutyan,

Anna Poladyan, Karen Trchounian

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L-amino acids affect the hydrogenase activity and growth of Ralstonia eutropha H16

Meri Iskandaryan, Syuzanna Blbulyan, Mayramik Sahakyan, Anait Vassilian, Karen Trchounian,

Anna Poladyan

AMB Express 2023 33

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Valorization of whey-based side streams for microbial biomass, molecular hydrogen, and hydrogenase production

Anna Poladyan, Karen Trchounian, Ela Minasyan, Meri Iskandaryan, Hayarpi Aghekyan, Sargis Aghayan,

Avetis Tsaturyan, Ani Paloyan, Garabed Antranikian, Lev Khoyetsyan

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The influence of hydrogen production on the formation of metabolic pathways and regulation of ΔpH in Escherichia coli

Heghine Gevorgyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

International Journal of Hydrogen Energy 2022 40264-40274

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THE EFFECT OF ANTIOXIDANT ACTIVITY OF PLANTS TRIFOLIUM PRATENSE L. AND CRATAEGUS LAEVIGATA ON LIPID PEROXIDATION IN RAT'S TISSUES EXPOSED TO HYPOBARIC HYPOXIA

I. A. BADALYAN, A. A. POLADYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2022 239-244

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

Syuzanna Blbulyan, Satenik Mirzoyan, Karen Trchounian, Anna Poladyan

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

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Biomass and biohydrogen production during dark fermentation of Escherichia coli using office paper waste and cardboard

Anna Poladyan, Lena Margaryan, Karen Trchounian, Armen Trchounian

International Journal of Hydrogen Energy 2020 286-293

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Application of organic waste glycerol to produce crude extracts of bacterial cells and microbial hydrogenase—the anode enzymes of bio-electrochemical systems

Anna Poladyan, Syuzanna Blbulyan, Tatiana Semashko, Volha Dziameshka, Liudmila Zhukouskaya,

Armen Trchounian

FEMS Microbiology Letters 2020 1-7

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ETHANOL SUPPLEMENTATION AS A NEW APPROACH TO REGULATE GROWTH AND HYDROGEN PRODUCTION OF ESCHERICHIA COLI UPON GLYCEROL FERMENTATION

A. A. Poladyan

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Growth of the facultative chemolithoautotroph Ralstonia eutropha on organic waste materials: Growth characteristics, redox regulation and hydrogenase activity

Anna Poladyan, Syuzanna Blbulyan, Mayramik Sahakyan, Oliver Lenz, Armen Trchounian

Microbial Cell Factories 2019 1-13

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Characterization of hydrogen production by Escherichia coli wild-type and mutants of hydrogenases utilizing xylose as fermentation substrate

Anna Poladyan, Armen Trchounian

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Hydrogen production by Escherichia coli using brewery waste: optimal pretreatment of waste and role of different hydrogenases

Anna Poladyan, Karen Trchounian, Anait Vassilian, Armen Trchounian

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Escherichia coli wild type and hydrogenase mutant cells growth and hydrogen production upon xylose and glycerol co-fermentation in media with different buffer capacities

Anna Poladyan, Lusine Baghdasaryan, Armen Trchounian

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Статья

Enhancement of Escherichia coli bacterial biomass and hydrogen production by some heavy metal ions and their mixtures during glycerol vs glucose fermentation at a relatively wide range of pH

Karen Trchounian, Anna Poladyan, Armen Trchounian

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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

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NEW APPROACHES TO ENHANCE HYDROGEN PRODUCTION FROM GLYCEROL BY ESCHERICHIA COLI

A. Poladyan

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Optimizing strategy for Escherichia coli growth and hydrogen production during glycerol fermentation in batch culture: Effects of some heavy metal ions and their mixtures

Karen Trchounian, Anna Poladyan, Armen Trchounian

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Alkanna orientalis (L.) Boiss. plant isolated cultures and antimicrobial activity of their extracts: phenomenon, dependence on different factors and effects on some membrane-associated properties of bacteria.

Margarit Petrosyan, Yekaterina Shcherbakova, Naira Sahakyan, Zaruhi Vardanyan, Anna Poladyan, Yuri Popov, Armen Trchounian

PLANT CELL TISSUE AND ORGAN CULTURE 2015 727-738

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Escherichia coli growth and hydrogen production in batch culture upon formate alone and with glycerol co-fermentation at different pHs

Karen Trchounian, Varduhi Abrahamyan, Anna Poladyan, Armen Trchounian

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Статья

Hydrogen production by Escherichia coli during glucose fermentation: Effects of oxidative and reductive routes used by the strain lacking hydrogen oxidizing hydrogenases 1 (hya) and 2 (hyb)

Varduhi Abrahamyan, Anna Poladyan, Anait Vassilian, Armen Trchounian

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Redox stress in geobacilli from geothermal springs: Phenomenon and membrane-associated response mechanisms

Astghik Ghazaryan, Syuzanna Blbulyan, Anna Poladyan, Armen Trchounian

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Համակարգչային տեխնոլոգիաների կիրառման առավելությունները և փորձը բուհական կենսաբանության դասավանդման ընթացքում

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Hydrogen-oxidizing hydrogenases 1 and 2 of Escherichia coli regulate the onset of hydrogen evolution and ATPase activity, respectively, during glucose fermentation at alkaline

Anna Poladyan, Karen Trchounian, Armen Trchounian, R. Gary Sawers

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Oxidative and Reductive Routes of Glycerol and Glucose Fermentation by Escherichia coli Batch Cultures and Their Regulation by Oxidizing and Reducing Reagents at Different pHs

Anna Poladyan, Anait Vassilian, Armen Trchounian, Arev Avagyan

Current Microbiology 2013 49-55

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Anna Poladyan, Karen Trchounian, Armen Trchounian, Mikayel Minasyants

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Multiple and reversible hydrogenases for hydrogen production by Escherichia coli: dependence on fermentation substrate, pH and the F₀F₁-ATPase

Karen Trchounian, Anna Poladyan, Anait Vassilian, Armen Trchounian

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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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Glycerol Fermentation and Hydrogen Metabolism by Escherichia coli: New Approaches to Enhance Hydrogen Production

A. Poladyan, K. Trchounian, A. Trchounian

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

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Developing hydrogen production biotechnology: cheap substrates, effective strains and optimized fermentative conditions

K.Trchounian, A. Poladyan, L. Gabrielyan, A. Trchounian

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Escherichia coli growth and hydrogen production upon glycerol fermentation at slightly acidic pH: effects of formate and some heavy metal ions

Karen Trchounian, Astghik Vardanyan, Anna Poladyan, Armen Trchounian

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Optimization Strategy for Hydrogen Production by Escherichia coli Using Brewery Waste

A. Poladyan, K. Trchounian, A. Trchounian

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H₂ PRODUCTION 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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Glucose concentrations influence on activities of FoF₁ ATPase and hydrogenase 4 in Escherichia coli

A. Poladyan, M. Sahakyan, S. Blbulyan, K. Trchounian, A. Trchounian

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Թռչունյան Կ.Ա., Գաբրիելյան Լ.Ս., Փոլադյան Ա.Ա., Թռչունյան Ա.Հ.

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Growth and Bioenergetics Properties of Facultative Chemolithoautotrophic Bacterium

Ralstonia Eutropha Upon Organic Waste Materials Utilization

S. Blbulyan, M. Sahakyan, A. Poladyan, A. Trchounian

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Batch Fermentation Characteristics and Hydrogen Production of Escherichia coli Wild Type and Hydrogenase Mutants Using Xylose As Feedstock

A. Poladyan, R. Hayrapetyan, A. Trchounian

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HYDROGEN PRODUCTION BY BACTERIA: STIMULATION EFFECTS AND RESPONSIBLE HYDROGENASES DURING XYLOSE VS. GLUCOSE DARK FERMENTATION

Anna Poladyan, Lusine Baghdasaryan, Karen Trchounian, Armen Trchounian

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The relationship of Escherichia coli Hyd enzymes with the FOF1-ATPase during fermentation of mixture of carbon sources

H. Gevorgyan, A. Poladyan, A. Trchounian, K. Trchounian

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From organic waste to biohydrogen: Approaches to enhance H₂ production by Escherichia coli

Anna Poladyan, Karen Trchounian, Armen Trchounian

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Анализ использования гидрогеназ Escherichia coli в качестве анодных ферментов

Анна Поладян, Армен Трчунян, Татьяна Семашко, Людмила Жуковская, Ольга Демешко

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From organic wastes to biohydrogen: responsible hydrogenases upon different carbon mixtures utilization by Escherichia coli.

Anna Poladyan, Karen Trchounina, Armen Trchounian

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Hydrogenase Activity of the Facultative Chemolithoautotroph Ralstonia eutropha Consuming Brewery Waste

A. Poladyan, O. Lenz, A. Trchounian

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Ralstonia eutropha Hydrogenase Application in Bioelectrocatalysis as Anode Enzyme

A. Poladyan, T. Semashko, L. Zhukouskaya, V. Dziameshka, A. Trchounian

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Analysis of the Escherichia coli hydrogenases as anodic enzymes in bioelectrochemical system

Anna Poladyan, Tatyana Semashko, Lyudmila Zhukouskaya, Volha Diameshka, Armen Trchounian

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Upcycling of office waste paper and cardbord to biohydrogen

Anna Poladyan, Lena Margaryan, Karen Trchounian, Tatyana Semashko, Armen Trchounian

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Redox regulation of the growth, hydrogenase activity and bioenergetic properties of *Ralstonia eutropha* upon different carbon source utilization

S. Blbulyan, M. Sahakyan, A. Poladyan, A. Trchounian

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Lignocellulosic waste as feedstock for bacterial biomass production: enhanced hydrogen evolution and hydrogenase activity

Anna Poladyan, Syuzanna Blbulyan, Mayramik Sahakyan, Armen Trchounian

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H₂ - Oxidizing Activity of *Escherichia coli* Upon Utilization of Different Waste Components

A. Poladyan, L. Baghdasaryan, S. Blbulyan, A. Trchounian

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Ethanol Affected Bacterial Growth and molecular Hydrogen Production by *Escherichia coli* Upon Fermentation of Glycerol

S. Blbulyan, A. Poladyan, A. Trchounian

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Prospective Trends in Biotechnology for Biohydrogen

Karen Trchounian, Anna Poladyan, Lilit Gabrielyan, Armen Trchounian

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The role of formate neutralization and molecular hydrogen generation in the metabolic flux in *Escherichia coli* during fermentation of mixed carbon sources

Gevorgyan H., Poladyan A., Trchounian K.

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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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WINE GRAPE WASTE APPLICATION FOR *ESCHERICHIA COLI* BIOMASS AND H₂ PRODUCTION

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

Anna Poladyan

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The valorization of whey-based side-streams for microbial biomass, hydrogen and

hydrogenase enzyme production

Anna Poladyan, Hayarpi Aghekyan, Ella Minasyan, Karen Trchounian, Ani Paloyan, Sargis Aghayan, Garabed Antranikian, Meri Iskandaryan, Diana Ghevondyan

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ՕՐԳԱՆԱԿԱՆ ԹԱՓՈՆՆԵՐԻՑ ԿԵՆՍԱԶԱՆԳՎԱԾԻ ԵՎ ԿԵՆՍԱԵՆՆԵՐԳԻԱՅԻ ՓՈԽԱԿԵՐՊՄԱՆ ԿԵՆՍԱԾԻՄԻԱԿԱՆ ՈՐԴԻՆԵՐԻ 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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THE OXIDATIVE STRESS AND POSSIBLE PREVENTIVE ACTION OF PLANT BORN POLYPHENOLS
Anahit Shirvanyan, Anush Babayan, Alvard Minasyan, Margarit Petrosyan, Anna Poladyan,
Naira Sahakyan

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THE OXIDATIVE STRESS AND T2DM-INDUCED DIABETIC NEPHROPATHY: POSSIBLE PREVENTIVE ACTION OF PANT-BORN OLIGOMERIC POLYPHENOLS
Gohar Sahakyan, Anne Vejux, Margarit Petrosyan, Anna Poladyan, Naira Sahakyan

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Characteristic effects of gold nanoparticles on growth and H₂ metabolism of *Ralstonia eutropha* H16 and *Escherichia coli*
Anna Poladyan, Tatev Manutsyan, Meri Iskandaryan, Syuzanna Blbulyan, Anait Vassilian,
Tatiana Semashko

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The role of glycine-betaine in the hydrogen metabolism of *Ralstonia eutropha* H16
Meri Iskandaryan, Liana Mnatsakanyan, Anna Poladyan

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Fe ions effect on hydrogenase activity of *Ralstonia eutropha* H16 in various growth media
Sona Nikolyan, Armine Margaryan, Anna Poladyan

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A NOVEL COST-EFFECTIVE APPROACH FOR PRODUCTION OF HYDROGENASE ENZYMES AND MOLECULAR HYDROGEN FROM WHEY-BASED BY-PRODUCTS
Anna Poladyan, Meri Iskandaryan, Ofelya Karapetyan, Ela Minasyan, Anait Vassilian, Karen Trchounian,
Garabed Antranikian

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REDOX REGULATION OF HYDROGEN PRODUCTION IN ESCHERICHIA COLI DURING GROWTH ON BYPRODUCTS OF THE WINE INDUSTRY
Lusine Baghdasaryan, Karen Trchounian, Garabed Antranikian, Anna Poladyan, Ofelya Karapetyan

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BIOTECHNOLOGICAL POTENTIAL OF SPENT COFFEE GROUNDS FOR LARGE-SCALE HYDROGEN PRODUCTION
Liana Vanyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

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Influence of acidic pH on the interaction between proton ATPase and enzymes responsible for molecular hydrogen generation

Karen Trchounian, Heghine Gevorgyan, Lilit Baghdasaryan, Anait Vassilian, Anna Poladyan

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Formate-hydrogen lyase has a significant role in proton motive force generation in Escherichia coli at acidic pH during mixed carbon fermentation

Heghine Gevorgyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

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The impact of oxygen-tolerant hydrogenases on cell energetics of Cupriavidus necator H16

Meri Iskandaryan, Anna Poladyan

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

Liana Vanyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

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Bioenergetic Properties of Microbes as Potential Target for Antibacterial Activity of Plant-Based Compounds

Anna Poladyan, Karen Trchounian, Naira Sahakyan

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Cupriavidus necator H16 growth and H₂-oxidizing Activity Using Mixture of Glycerol and Roasted Coffee Waste

R. Avetisyan, L. Mnatsakanyan, K. Trchounian, A. Poladyan

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Evaluation of an H₂ fuel cell electrochemical system powered by microbial cells

M. Iskandaryan, A. Poladyan, L. Baghdasaryan, T. Seferyan

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Effect of glycine on the heterotrophic growth and [NiFe]-hydrogenase activity of Cupriavidus necator H16

M. Iskandaryan, J. Schoknecht, O. Lenz, A. Poladyan

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The role of the Escherichia coli FocA and FocB formate channels in proton flux during fermentation of mixed carbon sources

Anush Babayan, Anait Vassilian, Anna Poladyan, Karen Trchounian

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Biomass and bioethanol production from dairy waste by Saccharomyces cerevisiae ATCC 13007

Liana Anikyan, Anahit Shirvanyan, Karen Trchounian, Anna Poladyan

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Fermentation of Molasses by Clostridium spp. for Biohydrogen and Biomass Production: A

Step Toward Renewable Energy and Circular Bioeconomy

Rima Avetisyan, Karen Trchounian, Anna Poladyan

Конференция

Bioconversion of fruit waste into bioethanol and single-cell protein using *Saccharomyces cerevisiae* strains

Anahit Shirvanyan, Ayaulym Daniyarova, Anait Vassilian, Anna Poladyan, Kumar Gopalakrishnan,

Duman Orynbekov, Kairat Bekbayev, Karen Trchounian
