

Valeriy A Alferov

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

312
citations

933447

10
h-index

888059

17
g-index

24
all docs

24
docs citations

24
times ranked

286
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial biosensors for detection of biological oxygen demand (a Review). <i>Applied Biochemistry and Microbiology</i> , 2011, 47, 1-11.	0.9	49
2	Yeast-based self-organized hybrid bio-silica sol-gels for the design of biosensors. <i>Biosensors and Bioelectronics</i> , 2015, 67, 321-326.	10.1	44
3	BOD biosensor based on the yeast <i>Debaryomyces hansenii</i> immobilized in poly(vinyl alcohol) modified by N-vinylpyrrolidone. <i>Enzyme and Microbial Technology</i> , 2013, 53, 257-262.	3.2	37
4	Bioelectrocatalytic Oxidation of Glucose by Immobilized Bacteria <i>Gluconobacter oxydans</i> . Evaluation of Water-Insoluble Mediator Efficiency. <i>Electroanalysis</i> , 2006, 18, 2023-2029.	2.9	22
5	Silica sol-gel encapsulated methylotrophic yeast as filling of biofilters for the removal of methanol from industrial wastewater. <i>Enzyme and Microbial Technology</i> , 2016, 92, 94-98.	3.2	21
6	Biosensors based on modified screen-printed enzyme electrodes for monitoring of fermentation processes. <i>Russian Journal of Applied Chemistry</i> , 2015, 88, 463-472.	0.5	18
7	Bioanode for a microbial fuel cell based on <i>Gluconobacter oxydans</i> immobilized into a polymer matrix. <i>Applied Biochemistry and Microbiology</i> , 2014, 50, 637-643.	0.9	17
8	Biofuel Cell Based on Bacteria of the Genus <i>Gluconobacter</i> as a Sensor for Express Analysis of Biochemical Oxygen Demand. <i>Applied Biochemistry and Microbiology</i> , 2018, 54, 689-694.	0.9	17
9	Interaction of Ferrocene Mediators with <i>Gluconobacter oxydans</i> Immobilized Whole Cells and Membrane Fractions in Oxidation of Ethanol. <i>Electroanalysis</i> , 2012, 24, 924-930.	2.9	13
10	Registration of BOD using <i>Paracoccus yeei</i> bacteria isolated from activated sludge. <i>3 Biotech</i> , 2020, 10, 207.	2.2	12
11	Effect of polyethylene glycol additives on structure, stability, and biocatalytic activity of ormosil sol-gel encapsulated yeast cells. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 88, 1-5.	2.4	11
12	Yeast <i>Debaryomyces hansenii</i> within ORMOSIL Shells as a Heterogeneous Biocatalyst. <i>Applied Biochemistry and Microbiology</i> , 2018, 54, 736-742.	0.9	9
13	An alcohol oxidase-based electrochemical sensor for the rapid determination of lower alcohols. <i>Journal of Analytical Chemistry</i> , 2011, 66, 1205-1211.	0.9	8
14	Synthesis of organosilicon sol-gel matrices and preparation of heterogeneous biocatalysts based on them. <i>Russian Journal of Applied Chemistry</i> , 2014, 87, 761-766.	0.5	8
15	A Biosensor Based Microorganisms Immobilized in Layer-by-Layer Films for the Determination of Biochemical Oxygen Demand. <i>Applied Biochemistry and Microbiology</i> , 2021, 57, 133-141.	0.9	7
16	Biohybrid of methylotrophic yeast and organically modified silica gels from sol-gel chemistry of tetraethoxysilane and dimethyldiethoxysilane. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 359-366.	2.4	5
17	Efficiency of bioelectrocatalytic oxidation of ethanol by whole cells and membrane fractions of <i>Gluconobacter Oxydans</i> bacteria in the presence of mediators of ferrocene series. <i>Russian Journal of Electrochemistry</i> , 2010, 46, 1408-1413.	0.9	3
18	Receptor elements for biosensors in two ways of methylotrophic yeast immobilization. <i>Applied Biochemistry and Microbiology</i> , 2012, 48, 519-524.	0.9	3

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19	A novel Bod-mediator biosensor based on Ferrocene and Debaryomyces hansenii yeast cells. Applied Biochemistry and Microbiology, 2017, 53, 381-387.	0.9	3
20	Transformation of low-molecular linear caprolactam oligomers by the caprolactam-degrading bacterium Pseudomonas putida BS394(pBS268). Microbiology, 2010, 79, 321-326.	1.2	1
21	Competition between redox mediator and oxygen in the microbial fuel cell. Applied Biochemistry and Microbiology, 2017, 53, 267-272.	0.9	1
22	Quantitative Aspects of Competition of Substitution and Addition Pathways in Chlorination of Synthetic Rubbers. Russian Journal of Applied Chemistry, 2003, 76, 1974-1977.	0.5	0
23	Quantitative Aspects of the Competition of Substitution and Addition Pathways in Polyisobutylene Chlorination. Russian Journal of Applied Chemistry, 2004, 77, 441-444.	0.5	0