

Sergey Kosourov

List of Publications by Year in descending order

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39
papers

2,431
citations

218592

26
h-index

377752

34
g-index

41
all docs

41
docs citations

41
times ranked

1511
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustained hydrogen photoproduction by <i>Chlamydomonas reinhardtii</i> : Effects of culture parameters. <i>Biotechnology and Bioengineering</i> , 2002, 78, 731-740.	1.7	268
2	Effects of Extracellular pH on the Metabolic Pathways in Sulfur-Deprived, H ₂ -Producing <i>Chlamydomonas reinhardtii</i> Cultures. <i>Plant and Cell Physiology</i> , 2003, 44, 146-155.	1.5	232
3	Hydrogen photoproduction by nutrient-deprived <i>Chlamydomonas reinhardtii</i> cells immobilized within thin alginate films under aerobic and anaerobic conditions. <i>Biotechnology and Bioengineering</i> , 2009, 102, 50-58.	1.7	167
4	Hydrogen production by sulfur-deprived <i>Chlamydomonas reinhardtii</i> under photoautotrophic conditions. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1574-1584.	3.8	140
5	A comparison of hydrogen photoproduction by sulfur-deprived <i>Chlamydomonas reinhardtii</i> under different growth conditions. <i>Journal of Biotechnology</i> , 2007, 128, 776-787.	1.9	137
6	Hydrogen photoproduction under continuous illumination by sulfur-deprived, synchronous <i>Chlamydomonas reinhardtii</i> cultures. <i>International Journal of Hydrogen Energy</i> , 2002, 27, 1239-1244.	3.8	111
7	Hydrogen production by cyanobacteria in an automated outdoor photobioreactor under aerobic conditions. <i>Biotechnology and Bioengineering</i> , 2002, 80, 777-783.	1.7	108
8	A truncated antenna mutant of <i>Chlamydomonas reinhardtii</i> can produce more hydrogen than the parental strain. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 2044-2048.	3.8	102
9	Continuous Hydrogen Photoproduction by <i>Chlamydomonas reinhardtii</i> : Using a Novel Two-Stage, Sulfate-Limited Chemostat System. <i>Applied Biochemistry and Biotechnology</i> , 2005, 121, 0403-0412.	1.4	96
10	Prolongation of H ₂ photoproduction by immobilized, sulfur-limited <i>Chlamydomonas reinhardtii</i> cultures. <i>Journal of Biotechnology</i> , 2008, 134, 275-7.	1.9	85
11	The Effect of Sulfur Re-Addition on H ₂ Photoproduction by Sulfur-Deprived Green Algae. <i>Photosynthesis Research</i> , 2005, 85, 295-305.	1.6	77
12	A new approach for sustained and efficient H ₂ photoproduction by <i>Chlamydomonas reinhardtii</i> . <i>Energy and Environmental Science</i> , 2018, 11, 1431-1436.	15.6	74
13	Sustained hydrogen photoproduction by phosphorus-deprived <i>Chlamydomonas reinhardtii</i> cultures. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8834-8839.	3.8	73
14	Phenotypic diversity of hydrogen production in chlorophycean algae reflects distinct anaerobic metabolisms. <i>Journal of Biotechnology</i> , 2009, 142, 21-30.	1.9	70
15	Photoproduction of hydrogen by sulfur-deprived <i>C. reinhardtii</i> mutants with impaired Photosystem II photochemical activity. <i>Photosynthesis Research</i> , 2007, 94, 79-89.	1.6	68
16	Evaluation of light energy to H ₂ energy conversion efficiency in thin films of cyanobacteria and green alga under photoautotrophic conditions. <i>Algal Research</i> , 2017, 28, 253-263.	2.4	61
17	Maximizing the hydrogen photoproduction yields in <i>Chlamydomonas reinhardtii</i> cultures: The effect of the H ₂ partial pressure. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8850-8858.	3.8	57
18	Extended H ₂ photoproduction by N ₂ -fixing cyanobacteria immobilized in thin alginate films. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 151-161.	3.8	56

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19	Heterocyst-specific flavodiiron protein Flv3B enables oxic diazotrophic growth of the filamentous cyanobacterium <i>Anabaena</i> sp. PCC 7120. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11205-11210.	3.3	55
20	Hydrogen production by photoautotrophic sulfur-deprived <i>Chlamydomonas reinhardtii</i> pre-grown and incubated under high light. Biotechnology and Bioengineering, 2009, 102, 1055-1061.	1.7	41
21	<i>Chlamydomonas</i> Flavodiiron Proteins Facilitate Acclimation to Anoxia During Sulfur Deprivation. Plant and Cell Physiology, 2015, 56, 1598-1607.	1.5	34
22	Versatile templates from cellulose nanofibrils for photosynthetic microbial biofuel production. Journal of Materials Chemistry A, 2018, 6, 5825-5835.	5.2	34
23	Elimination of the flavodiiron electron sink facilitates long-term H ₂ photoproduction in green algae. Biotechnology for Biofuels, 2019, 12, 280.	6.2	34
24	Towards sustainable ethylene production with cyanobacterial artificial biofilms. Green Chemistry, 2020, 22, 6404-6414.	4.6	33
25	Hydrogen Photoproduction by Immobilized N ₂ -Fixing Cyanobacteria: Understanding the Role of the Uptake Hydrogenase in the Long-Term Process. Applied and Environmental Microbiology, 2014, 80, 5807-5817.	1.4	31
26	A versatile method for preparation of hydrated microbial latex biocatalytic coatings for gas absorption and gas evolution. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 1269-1278.	1.4	27
27	Water oxidation by photosystem II is the primary source of electrons for sustained H ₂ photoproduction in nutrient-replete green algae. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29629-29636.	3.3	27
28	Photosynthetic hydrogen production: Novel protocols, promising engineering approaches and application of semi-synthetic hydrogenases. Physiologia Plantarum, 2021, 173, 555-567.	2.6	22
29	Recent Developments on Cyanobacteria and Green Algae for Biohydrogen Photoproduction and Its Importance in CO ₂ Reduction. , 2014, , 367-387.		18
30	Carotenoid Biosynthesis in <i>Calothrix</i> sp. 336/3: Composition of Carotenoids on Full Medium, During Diazotrophic Growth and After Long-Term H ₂ Photoproduction. Plant and Cell Physiology, 2016, 57, 2269-2282.	1.5	18
31	Immobilization of Photosynthetic Microorganisms for Efficient Hydrogen Production. Advances in Photosynthesis and Respiration, 2014, , 321-347.	1.0	17
32	Electrospinning of Electroconductive Water-Resistant Nanofibers of PEDOT-PSS, Cellulose Nanofibrils and PEO: Fabrication, Characterization, and Cytocompatibility. ACS Applied Bio Materials, 2021, 4, 483-493.	2.3	17
33	Nanocellulose-based mechanically stable immobilization matrix for enhanced ethylene production: a framework for photosynthetic solid-state cell factories. Green Chemistry, 2021, 23, 3715-3724.	4.6	15
34	CHAPTER 15. Immobilization of Microalgae as a Tool for Efficient Light Utilization in H ₂ Production and Other Biotechnology Applications. Comprehensive Series in Photochemical and Photobiological Sciences, 2018, , 355-384.	0.3	8
35	Immobilized heterocysts as microbial factories for sustainable nitrogen fixation. Journal of Biotechnology, 2019, 306, 100016.	1.9	7
36	Development of Algal Systems for Hydrogen Photoproduction: Addressing the Hydrogenase Oxygen-sensitivity Problem. , 2006, , 211-227.		5

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37	Continuous Hydrogen Photoproduction by <i>Chlamydomonas reinhardtii</i> . , 2005, , 403-412.		5
38	Hydrogen Photoproduction in Green Algae: Novel Insights and Future Perspectives. , 2020, , 237-253.		1
39	Acclimation responses of immobilized N ₂ -fixing heterocystous cyanobacteria to long-term H ₂ photoproduction conditions: carbon allocation, oxidative stress and carotenoid production. <i>Journal of Applied Phycology</i> , 2019, 31, 131-143.	1.5	0