

Taras Antal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7032702/publications.pdf>

Version: 2024-02-01

58
papers

1,565
citations

257450

24
h-index

315739

38
g-index

61
all docs

61
docs citations

61
times ranked

1541
citing authors

#	ARTICLE	IF	CITATIONS
1	Approaches to rapid screening of pharmaceutical xenobiotic effects on microalgae via monitoring of photosynthetic apparatus condition. <i>Journal of Applied Phycology</i> , 2022, 34, 353-361.	2.8	8
2	Cadmium- and chromium-induced damage and acclimation mechanisms in <i>Scenedesmus quadricauda</i> and <i>Chlorella sorokiniana</i> . <i>Journal of Applied Phycology</i> , 2022, 34, 1435-1446.	2.8	3
3	Influence of Fermentation Reactions on Continuous Hydrogen Photoproduction by Microalga <i>Chlamydomonas reinhardtii</i> under Sulfur Deficiency. <i>Moscow University Biological Sciences Bulletin</i> , 2022, 77, 25-31.	0.7	2
4	Multiple <i>in Vivo</i> Effects of Cadmium on Photosynthetic Electron Transport in Pea Plants. <i>Photochemistry and Photobiology</i> , 2021, 97, 1516-1526.	2.5	8
5	State of the phycobilisome determines effective absorption cross-section of Photosystem II in <i>Synechocystis</i> sp. PCC 6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148494.	1.0	7
6	Heavy metal toxicity detection in phytoplankton by using neural network analysis of chlorophyll fluorescence induction. , 2021, , 134-141.		1
7	Chromium effects on photosynthetic electron transport in pea (<i>Pisum sativum</i> L.). <i>Planta</i> , 2020, 251, 11.	3.2	23
8	Mapping Single Walled Carbon Nanotubes in Photosynthetic Algae by Single-Cell Confocal Raman Microscopy. <i>Materials</i> , 2020, 13, 5121.	2.9	12
9	Action spectrum of the redox state of the plastoquinone pool defines its function in plant acclimation. <i>Plant Journal</i> , 2020, 104, 1088-1104.	5.7	16
10	Models of Photosynthetic Electron Transport. <i>Biophysics (Russian Federation)</i> , 2020, 65, 754-768.	0.7	3
11	The Mechanisms and Role of Photosynthetic Hydrogen Production by Green Microalgae. <i>Microbiology</i> , 2020, 89, 251-265.	1.2	24
12	Photosynthetic hydrogen production as acclimation mechanism in nutrient-deprived <i>Chlamydomonas</i> . <i>Algal Research</i> , 2020, 49, 101951.	4.6	21
13	Comparative analysis of plastocyanin-cytochrome complex formation in higher plants, green algae and cyanobacteria. <i>Physiologia Plantarum</i> , 2019, 166, 320-335.	5.2	19
14	Group 2 Sigma Factors are Central Regulators of Oxidative Stress Acclimation in Cyanobacteria. <i>Plant and Cell Physiology</i> , 2019, 60, 436-447.	3.1	13
15	Chlorophyll fluorescence induction and relaxation system for the continuous monitoring of photosynthetic capacity in photobioreactors. <i>Physiologia Plantarum</i> , 2019, 165, 476-486.	5.2	28
16	Seasonal Changes in Primary Photosynthetic Events during Low Temperature Adaptation of <i>Pinus sylvestris</i> in Central Yakutia. <i>Russian Journal of Plant Physiology</i> , 2018, 65, 658-666.	1.1	6
17	Simulation of chlorophyll fluorescence rise and decay kinetics, and P700-related absorbance changes by using a rule-based kinetic Monte-Carlo method. <i>Photosynthesis Research</i> , 2018, 138, 191-206.	2.9	11
18	CHAPTER 10. The Metabolic Acclimation of <i>Chlamydomonas reinhardtii</i> to Depletion of Essential Nutrients: Application for Hydrogen Production. <i>Comprehensive Series in Photochemical and Photobiological Sciences</i> , 2018, , 235-264.	0.3	2

#	ARTICLE	IF	CITATIONS
19	Multiparticle Brownian dynamics simulation of experimental kinetics of cytochrome <i>bc_L</i> oxidation and photosystem I reduction by plastocyanin. <i>Physiologia Plantarum</i> , 2017, 161, 88-96.	5.2	17
20	Comparative analyses of H_2 photoproduction in magnesium- and sulfur-starved <i>Chlamydomonas reinhardtii</i> cultures. <i>Physiologia Plantarum</i> , 2017, 161, 124-137.	5.2	26
21	Acclimation to High CO_2 Requires the σ^{70} Subunit of the RNA Polymerase in <i>Synechocystis</i> . <i>Plant Physiology</i> , 2017, 174, 172-184.	4.8	14
22	Roles of Group 2 Sigma Factors in Acclimation of the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 to Nitrogen Deficiency. <i>Plant and Cell Physiology</i> , 2016, 57, 1309-1318.	3.1	49
23	Hydrogen photoproduction by immobilized S-deprived <i>Chlamydomonas reinhardtii</i> : Effect of light intensity and spectrum, and initial medium pH. <i>Algal Research</i> , 2016, 17, 38-45.	4.6	24
24	Modeling of primary photosynthetic processes using the kinetic Monte Carlo method. <i>Biophysics (Russian Federation)</i> , 2016, 61, 387-399.	0.7	11
25	Multiple regulatory mechanisms in the chloroplast of green algae: relation to hydrogen production. <i>Photosynthesis Research</i> , 2015, 125, 357-381.	2.9	42
26	Cultivation of <i>Nannochloropsis</i> for eicosapentaenoic acid production in wastewaters of pulp and paper industry. <i>Bioresource Technology</i> , 2015, 193, 469-476.	9.6	44
27	Potential of carbon nanotubes in algal biotechnology. <i>Photosynthesis Research</i> , 2015, 125, 451-471.	2.9	39
28	Generation of high-value products by photosynthetic microorganisms: from sunlight to biofuels. <i>Photosynthesis Research</i> , 2015, 125, 355-356.	2.9	6
29	Photoprotective mechanisms in photosystem II of <i>Ephedra monosperma</i> during development of frost tolerance. <i>Russian Journal of Plant Physiology</i> , 2014, 61, 751-759.	1.1	4
30	Oxidative stress and photoinhibition can be separated in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 217-225.	1.0	47
31	Pathways of hydrogen photoproduction by immobilized <i>Chlamydomonas reinhardtii</i> cells deprived of sulfur. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18194-18203.	7.1	22
32	Photosynthesis-related quantities for education and modeling. <i>Photosynthesis Research</i> , 2013, 117, 1-30.	2.9	57
33	Antimycin A effect on the electron transport in chloroplasts of two <i>Chlamydomonas reinhardtii</i> strains. <i>Planta</i> , 2013, 237, 1241-1250.	3.2	13
34	Study of the effect of reducing conditions on the initial chlorophyll fluorescence rise in the green microalgae <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 2013, 114, 143-154.	2.9	24
35	Group 2 Sigma Factor Mutant σ^{70} of the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 Reveals Functionality of Both Carotenoids and Flavodiiron Proteins in Photoprotection of Photosystem II. <i>Plant and Cell Physiology</i> , 2013, 54, 1780-1790.	3.1	29
36	Use of near-infrared radiation for oxygenic photosynthesis via photon up-conversion. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8859-8863.	7.1	24

#	ARTICLE	IF	CITATIONS
37	Acclimation of green algae to sulfur deficiency: underlying mechanisms and application for hydrogen production. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 3-15.	3.6	90
38	Membrane potential is involved in regulation of photosynthetic reactions in the marine diatom <i>Thalassiosira weissflogii</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 102, 169-173.	3.8	25
39	Photophysical processes of energy conversion in thylakoid membranes of <i>Chlamydomonas reinhardtii</i> mutants D1-R323H, D1-R323D, and D1-R323L. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2010, 4, 134-142.	0.6	0
40	Acclimation of photosynthesis to nitrogen deficiency in <i>Phaseolus vulgaris</i> . <i>Planta</i> , 2010, 232, 887-898.	3.2	58
41	Hydrogen production by photoautotrophic sulfur-deprived <i>Chlamydomonas reinhardtii</i> pre-grown and incubated under high light. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1055-1061.	3.3	41
42	Probing of photosynthetic reactions in four phytoplanktonic algae with a PEA fluorometer. <i>Photosynthesis Research</i> , 2009, 102, 67-76.	2.9	36
43	Assessment of the effects of methylmercury and copper ions on primary processes of photosynthesis in green microalga <i>Chlamydomonas moewusii</i> by analysis of the kinetic curves of variable chlorophyll fluorescence. <i>Biophysics (Russian Federation)</i> , 2009, 54, 481-485.	0.7	8
44	Illumination with Ultraviolet or Visible Light Induces Chemical Changes in the Water-soluble Manganese Complex, $[Mn_4O_6(bpea)_4Br_4]$. <i>Photochemistry and Photobiology</i> , 2009, 85, 663-668.	2.5	17
45	Relationships between H ₂ photoproduction and different electron transport pathways in sulfur-deprived <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9087-9094.	7.1	68
46	Two-Electron Reactions S ₂ Q _B → S ₀ Q _B and S ₃ Q _B → S ₁ Q _B are Involved in Deactivation of Higher S States of the Oxygen-Evolving Complex of Photosystem II. <i>Biophysical Journal</i> , 2009, 96, 4672-4680.	0.5	13
47	In vivo analysis of chlorophyll a fluorescence induction. <i>Photosynthesis Research</i> , 2008, 96, 217-226.	2.9	41
48	Effect of dibromothymoquinone on Chlorophyll a Fluorescence in <i>Chlamydomonas reinhardtii</i> cells incubated in complete or sulfur-depleted medium. <i>Biophysics (Russian Federation)</i> , 2008, 53, 378-385.	0.7	4
49	Examination of chlorophyll fluorescence decay kinetics in sulfur deprived algae <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 559-564.	1.0	29
50	Study of photosystem 2 heterogeneity in the sulfur-deficient green alga <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 2007, 94, 13-22.	2.9	30
51	Effects of sulfur limitation on photosystem II functioning in <i>Chlamydomonas reinhardtii</i> as probed by chlorophyll a fluorescence. <i>Physiologia Plantarum</i> , 2006, 128, 360-367.	5.2	29
52	Examination of chlorophyll fluorescence in sulfur-deprived cells of <i>Chlamydomonas reinhardtii</i> . <i>Biophysics (Russian Federation)</i> , 2006, 51, 251-257.	0.7	5
53	The bidirectional hydrogenase in the cyanobacterium <i>Synechocystis</i> sp. strain PCC 6803. <i>International Journal of Hydrogen Energy</i> , 2006, 31, 1439-1444.	7.1	42
54	Production of H ₂ by sulphur-deprived cells of the unicellular cyanobacteria <i>Gloeocapsa alpicola</i> and <i>Synechocystis</i> sp. PCC 6803 during dark incubation with methane or at various extracellular pH. <i>Journal of Applied Microbiology</i> , 2005, 98, 114-120.	3.1	128

#	ARTICLE	IF	CITATIONS
55	The dependence of algal H ₂ production on Photosystem II and O ₂ consumption activities in sulfur-deprived <i>Chlamydomonas reinhardtii</i> cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1607, 153-160.	1.0	166
56	Evaluation of diatomea algae <i>Thalassiosira weissflogii</i> sensitivity to chloride mercury and methylmercury by chlorophyll fluorescence analysis. <i>European Physical Journal Special Topics</i> , 2003, 107, 569-572.	0.2	4
57	Oxidative Processes in Photosystem I of Thermophilic Cyanobacteria at High Temperatures. <i>Russian Journal of Plant Physiology</i> , 2001, 48, 638-644.	1.1	1
58	The relationship between the photosystem 2 activity and hydrogen production in sulfur deprived <i>Chlamydomonas reinhardtii</i> cells. <i>Doklady Biochemistry and Biophysics</i> , 2001, 381, 371-374.	0.9	27