

Zbigniew Tukaj

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Cadmium effect on the growth, photosynthesis, ultrastructure and phytochelatin content of green microalga <i>Scenedesmus armatus</i> : A study at low and elevated CO ₂ concentration. <i>Environmental and Experimental Botany</i> , 2007, 60, 291-299.	4.2	77
2	Intact anthracene inhibits photosynthesis in algal cells: A fluorescence induction study on <i>Chlamydomonas reinhardtii</i> cw92 strain. <i>Chemosphere</i> , 2008, 74, 26-32.	8.2	73
3	The Effect of Anthracene and Phenanthrene on the Growth, Photosynthesis, and SOD Activity of the Green Alga <i>Scenedesmus armatus</i> Depends on the PAR Irradiance and CO ₂ Level. <i>Archives of Environmental Contamination and Toxicology</i> , 2004, 47, 177-84.	4.1	51
4	Time-dependent changes in antioxidative enzyme expression and photosynthetic activity of <i>Chlamydomonas reinhardtii</i> cells under acute exposure to cadmium and anthracene. <i>Ecotoxicology and Environmental Safety</i> , 2014, 110, 31-40.	6.0	49
5	Toxic effects of anthraquinone and phenanthrenequinone upon <i>Scenedesmus</i> strains (green algae) at low and elevated concentration of CO ₂ . <i>Chemosphere</i> , 2007, 66, 480-487.	8.2	39
6	Changes in nitric oxide/hydrogen peroxide content and cell cycle progression: Study with synchronized cultures of green alga <i>Chlamydomonas reinhardtii</i> . <i>Journal of Plant Physiology</i> , 2017, 208, 84-93.	3.5	38
7	The combined effect of anthracene and cadmium on photosynthetic activity of three <i>Desmodesmus</i> (Chlorophyta) species. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1207-1213.	6.0	34
8	Distinct chemical contaminants induce the synthesis of Hsp70 proteins in green microalgae <i>Desmodesmus subspicatus</i> : Heat pretreatment increases cadmium resistance. <i>Journal of Thermal Biology</i> , 2010, 35, 239-244.	2.5	31
9	The effects of crude and fuel oils on the growth, chlorophyll <i>a</i> content and dry matter production of a green alga <i>Scenedesmus quadricauda</i> (Turp.) Grun. <i>Environmental Pollution</i> , 1987, 47, 9-24.	7.5	30
10	Changes in the pigment patterns and the photosynthetic activity during a light-induced cell cycle of the green alga <i>Scenedesmus armatus</i> . <i>Plant Physiology and Biochemistry</i> , 2003, 41, 337-344.	5.8	28
11	Autoinduction activity of a conditioned medium obtained from high density cultures of the green alga <i>Scenedesmus subspicatus</i> . <i>Journal of Applied Phycology</i> , 2008, 20, 323-330.	2.8	26
12	Activities of superoxide dismutase (SOD) isoforms during growth of <i>Scenedesmus</i> (chlorophyta) species and strains grown in batch-cultures. <i>Acta Physiologiae Plantarum</i> , 2003, 25, 375-384.	2.1	24
13	Time- and Dose-Dependent Induction of HSP70 in <i>Lemna minor</i> Exposed to Different Environmental Stressors. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2011, 87, 226-230.	2.7	22
14	Adaptation strategies of two closely related <i>Desmodesmus armatus</i> (green alga) strains contained different amounts of cadmium: A study with light-induced synchronized cultures of algae. <i>Journal of Plant Physiology</i> , 2014, 171, 69-77.	3.5	21
15	Promoting effects of organic medium supplements on the micropropagation of promising ornamental <i>Daphne</i> species (Thymelaeaceae). <i>In Vitro Cellular and Developmental Biology - Plant</i> , 2013, 49, 51-59.	2.1	20
16	Toxicity of Cadmium, Anthracene, and Their Mixture to <i>Desmodesmus subspicatus</i> Estimated by Algal Growth-Inhibition ISO Standard Test. <i>Archives of Environmental Contamination and Toxicology</i> , 2011, 60, 610-617.	4.1	19
17	Effects of juglone and lawsone on oxidative stress in maize coleoptile cells treated with IAA. <i>AoB PLANTS</i> , 2016, 8, .	2.3	19
18	A morphometric and stereological analysis of ultrastructural changes in two <i>Scenedesmus</i> (Chlorococcales, Chlorophyta) strains subjected to diesel fuel oil pollution. <i>Phycologia</i> , 1998, 37, 388-393.	1.4	17

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19	The mechanism of anthracene interaction with photosynthetic apparatus: A study using intact cells, thylakoid membranes and PS II complexes isolated from <i>Chlamydomonas reinhardtii</i> . <i>Aquatic Toxicology</i> , 2011, 104, 205-210.	4.0	17
20	Rooting response of <i>Prunus domestica</i> L. microshoots in the presence of phytoactive medium supplements. <i>Plant Cell, Tissue and Organ Culture</i> , 2016, 125, 163-176.	2.3	17
21	EFFECT OF IRRADIANCE ON GROWTH AND REPRODUCTIVE PROCESSES DURING THE CELL CYCLE IN <i>SCENEDESMUS ARMATUS</i> (CHLOROPHYTA)1. <i>Journal of Phycology</i> , 1996, 32, 624-631.	2.3	16
22	Toxicity of Three Insecticides in a Standard Algal Growth Inhibition Test with <i>Scenedesmus subspicatus</i> . <i>Bulletin of Environmental Contamination and Toxicology</i> , 2005, 74, 1192-1198.	2.7	16
23	Relationships between growth, development and photosynthetic activity during the cell cycle of <i>Scenedesmus armatus</i> (Chlorophyta) in synchronous cultures. <i>European Journal of Phycology</i> , 2006, 41, 29-38.	2.0	14
24	High hydrogen peroxide production and antioxidative enzymes expression in the <i>Chlamydomonas reinhardtii</i> mutant with an increased tolerance to cadmium and anthracene. <i>Phycological Research</i> , 2016, 64, 300-311.	1.6	14
25	Effect of fuel oil and dispersant on cell cycle and macromolecular synthesis in the chlorococcal alga <i>Scenedesmus armatus</i> . <i>Marine Biology</i> , 1993, 117, 347-353.	1.5	13
26	Toxicity of inorganic cadmium salts to the microalga <i>Scenedesmus armatus</i> (Chlorophyta) with respect to medium composition, pH and CO ₂ concentration. <i>Acta Physiologiae Plantarum</i> , 2002, 24, 59-65.	2.1	13
27	Effect of temperature on the dose-response curves for auxin-induced elongation growth in maize coleoptile segments. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 437-442.	2.1	11
28	Effect of thiosulphinates contained in garlic extract on growth, proton fluxes and membrane potential in maize (<i>Zea mays</i> L.) coleoptile segments. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 41-52.	2.1	11
29	Exogenously applied hydrogen peroxide modifies the course of the <i>Chlamydomonas reinhardtii</i> cell cycle. <i>Journal of Plant Physiology</i> , 2018, 230, 61-72.	3.5	10
30	Characterization by photoacoustic spectroscopy of the photosynthetic <i>Scenedesmus armatus</i> system affected by fuel oil contamination. <i>Archives of Environmental Contamination and Toxicology</i> , 1995, 29, 406-410.	4.1	9
31	The effect of conditioned medium obtained from <i>Scenedesmus subspicatus</i> on suspension culture of <i>Silene vulgaris</i> (Caryophyllaceae). <i>Acta Physiologiae Plantarum</i> , 2009, 31, 881-887.	2.1	9
32	Therapeutic Implications of Targeting Heat Shock Protein 70 by Immunization or Antibodies in Experimental Skin Inflammation. <i>Frontiers in Immunology</i> , 2021, 12, 614320.	4.8	9
33	Oxygen evolution and photosynthetic energy storage during the cell cycle of green alga <i>Scenedesmus armatus</i> characterized by photoacoustic spectroscopy. <i>Journal of Plant Physiology</i> , 2001, 158, 1061-1067.	3.5	8
34	Conditioned medium factor produced and released by <i>Scenedesmus subspicatus</i> and its effect on the cell cycle of the producer. <i>Journal of Applied Phycology</i> , 2010, 22, 517-524.	2.8	7
35	Chlorophyll catabolites in conditioned media of green microalga <i>Scenedesmus subspicatus</i> . <i>Journal of Applied Phycology</i> , 2016, 28, 889-896.	2.8	7
36	Sensitivity to fuel diesel oil and cell wall structure of some <i>Scenedesmus</i> (Chlorococcales) strains. <i>Acta Societatis Botanicorum Poloniae</i> , 2014, 64, 139-147.	0.8	6

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37	Induction time of Fe-SOD synthesis and activity determine different tolerance of two <i>Desmodesmus</i> (green algae) strains to chloridazon: A study with synchronized cultures. <i>Pesticide Biochemistry and Physiology</i> , 2013, 107, 68-77.	3.6	4
38	Mature <i>Luffa</i> Leaves (<i>Luffa cylindrica</i> L.) as a Tool for Gene Expression Analysis by Agroinfiltration. <i>Frontiers in Plant Science</i> , 2017, 8, 228.	3.6	4
39	The effect of fuel oil on the ultrastructure of the chlorococcal alga <i>Scenedesmus armatus</i> . <i>Protoplasma</i> , 1989, 151, 47-56.	2.1	2
40	Functional characteristics of green alga <i>Scenedesmus obliquus</i> (Chlorophyceae): 276 th wild type and its two photosystems deficient mutants cultured under photoautotrophic, mixotrophic and heterotrophic conditions. <i>Phycological Research</i> , 2011, 59, 259-268.	1.6	2
41	Growth Improvement of <i>Nicotiana</i> and <i>Arabidopsis</i> In Vitro by Microalgal Conditioned Media. <i>Acta Biologica Cracoviensia Series Botanica</i> , 2015, 56, 91-97.	0.5	2
42	Production of recombinant human deoxyribonuclease I in <i>Luffa cylindrica</i> L. and <i>Nicotiana tabacum</i> L.: evidence for protein secretion to the leaf intercellular space. <i>Plant Cell, Tissue and Organ Culture</i> , 2019, 136, 51-63.	2.3	2
43	Photosynthetic Efficiency During the Cell Cycle of the Green Alga <i>Desmodesmus armatus</i> Reaches Maxima in G1 Phases and Minima in G1/S Transients. , 2008, , 1053-1056.		0
44	Photoacoustic Measurements of Photosynthetic Energy Storage in <i>Scenedesmus Armatus</i> Exposed to <i>Baltic</i> Crude Oil. , 1995, , 4909-4912.		0