Zbigniew Tukaj

List of Publications by Year
in descending order

44	843	471061	525886
papers	citations	17 h-index	27 g-index

45	45	45	1038
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cadmium effect on the growth, photosynthesis, ultrastructure and phytochelatin content of green microalga Scenedesmus armatus: A study at low and elevated CO2 concentration. Environmental and Experimental Botany, 2007, 60, 291-299.	2.0	77
2	Intact anthracene inhibits photosynthesis in algal cells: A fluorescence induction study on Chlamydomonas reinhardtii cw92 strain. Chemosphere, 2008, 74, 26-32.	4.2	73
3	The Effect of Anthracene and Phenanthrene on the Growth, Photosynthesis, and SOD Activity of the Green Alga Scenedesmus armatus Depends on the PAR Irradiance and CO2 Level. Archives of Environmental Contamination and Toxicology, 2004, 47, 177-84.	2.1	51
4	Time-dependent changes in antioxidative enzyme expression and photosynthetic activity of Chlamydomonas reinhardtii cells under acute exposure to cadmium and anthracene. Ecotoxicology and Environmental Safety, 2014, 110, 31-40.	2.9	49
5	Toxic effects of anthraquinone and phenanthrenequinone upon Scenedesmus strains (green algae) at low and elevated concentration of CO2. Chemosphere, 2007, 66, 480-487.	4.2	39
6	Changes in nitric oxide/hydrogen peroxide content and cell cycle progression: Study with synchronized cultures of green alga Chlamydomonas reinhardtii. Journal of Plant Physiology, 2017, 208, 84-93.	1.6	38
7	The combined effect of anthracene and cadmium on photosynthetic activity of three Desmodesmus (Chlorophyta) species. Ecotoxicology and Environmental Safety, 2010, 73, 1207-1213.	2.9	34
8	Distinct chemical contaminants induce the synthesis of Hsp70 proteins in green microalgae Desmodesmus subspicatus: Heat pretreatment increases cadmium resistance. Journal of Thermal Biology, 2010, 35, 239-244.	1.1	31
9	The effects of crude and fuel oils on the growth, chlorophyll â€˜aâ€™ content and dry matter production of a green alga Scenedesmus quadricauda (Turp.) brÃ©b. Environmental Pollution, 1987, 47, 9-24.	3.7	30
10	Changes in the pigment patterns and the photosynthetic activity during a light-induced cell cycle of the green alga Scenedesmus armatus. Plant Physiology and Biochemistry, 2003, 41, 337-344.	2.8	28
11	Autoinduction activity of a conditioned medium obtained from high density cultures of the green alga Scenedesmus subspicatus. Journal of Applied Phycology, 2008, 20, 323-330.	1.5	26
12	Activities of superoxide dismutase (SOD) isoforms during growth of Scenedesmus (chlorophyta) species and strains grown in batch-cultures. Acta Physiologiae Plantarum, 2003, 25, 375-384.	1.0	24
13	Time- and Dose-Dependent Induction of HSP70 in Lemna minor Exposed to Different Environmental Stressors. Bulletin of Environmental Contamination and Toxicology, 2011, 87, 226-230.	1.3	22
14	Adaptation strategies of two closely related Desmodesmus armatus (green alga) strains contained different amounts of cadmium: A study with light-induced synchronized cultures of algae. Journal of Plant Physiology, 2014, 171, 69-77.	1.6	21
15	Promoting effects of organic medium supplements on the micropropagation of promising ornamental Daphne species (Thymelaeaceae). In Vitro Cellular and Developmental Biology - Plant, 2013, 49, 51-59.	0.9	20
16	Toxicity of Cadmium, Anthracene, and Their Mixture to Desmodesmus subspicatus Estimated by Algal Growth-Inhibition ISO Standard Test. Archives of Environmental Contamination and Toxicology, 2011, 60, 610-617.	2.1	19
17	Effects of juglone and lawsone on oxidative stress in maize coleoptile cells treated with IAA. AoB PLANTS, 2016, 8, .	1.2	19
18	A morphometric and stereological analysis of ultrastructural changes in two Scenedesmus (Chlorococcales, Chlorophyta) strains subjected to diesel fuel oil pollution. Phycologia, 1998, 37, 388-393.	0.6	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 Chlamydomonas reinhardtii. Aquatic Toxicology, 2011, 104, 205-210.	1.9	17
20	Rooting response of Prunus domestica L. microshoots in the presence of phytoactive medium supplements. Plant Cell, Tissue and Organ Culture, 2016, 125, 163-176.	1.2	17
21	EFFECT OF IRRADIANCE ON GROWTH AND REPRODUCTIVE PROCESSES DURING THE CELL CYCLE IN SCENEDESMUS ARMATUS (CHLOROPHYTA)1. Journal of Phycology, 1996, 32, 624-631.	1.0	16
22	Toxicity of Three Insecticides in a Standard Algal Growth Inhibition Test with Scenedesmus subspicatus. Bulletin of Environmental Contamination and Toxicology, 2005, 74, 1192-1198.	1.3	16
23	Relationships between growth, development and photosynthetic activity during the cell cycle ofDesmodesmus armatus(Chlorophyta) in synchronous cultures. European Journal of Phycology, 2006, 41, 29-38.	0.9	14
24	High hydrogen peroxide production and antioxidative enzymes expression in the Chlamydomonas reinhardtii cia3 mutant with an increased tolerance to cadmium and anthracene. Phycological Research, 2016, 64, 300-311.	0.8	14
25	Effect of fuel oil and dispersant on cell cycle and macromolecular synthesis in the chlorococcal alga Scenedesmus armatus. Marine Biology, 1993, 117, 347-353.	0.7	13
26	Toxicity of inorganic cadmium salts to the microalga Scenedesmus armatus (Chlorophyta) with respect to medium composition, pH and CO2 concentration. Acta Physiologiae Plantarum, 2002, 24, 59-65.	1.0	13
27	Effect of temperature on the doseâ€“response curves for auxin-induced elongation growth in maize coleoptile segments. Acta Physiologiae Plantarum, 2011, 33, 437-442.	1.0	11
28	Effect of thiosulphinates contained in garlic extract on growth, proton fluxes and membrane potential in maize (Zea mays L.) coleoptile segments. Acta Physiologiae Plantarum, 2012, 34, 41-52.	1.0	11
29	Exogenously applied hydrogen peroxide modifies the course of the Chlamydomonas reinhardtii cell cycle. Journal of Plant Physiology, 2018, 230, 61-72.	1.6	10
30	Characterization by photoacoustic spectroscopy of the photosynthetic Scenedesmus armatus system affected by fuel oil contamination. Archives of Environmental Contamination and Toxicology, 1995, 29, 406-410.	2.1	9
31	The effect of conditioned medium obtained from Scenedesmus subspicatus on suspension culture of Silene vulgaris (Caryophyllaceae). Acta Physiologiae Plantarum, 2009, 31, 881-887.	1.0	9
32	Therapeutic Implications of Targeting Heat Shock Protein 70 by Immunization or Antibodies in Experimental Skin Inflammation. Frontiers in Immunology, 2021, 12, 614320.	2.2	9
33	Oxygen evolution and photosynthetic energy storage during the cell cycle of green alga Scenedesmus armatus characterized by photoacoustic spectroscopy. Journal of Plant Physiology, 2001, 158, 1061-1067.	1.6	8
34	Conditioned medium factor produced and released by Desmosdemus subspicatus and its effect on the cell cycle of the producer. Journal of Applied Phycology, 2010, 22, 517-524.	1.5	7
35	Chlorophyll catabolites in conditioned media of green microalga Desmodesmus subspicatus. Journal of Applied Phycology, 2016, 28, 889-896.	1.5	7
36	Sensitivity to fuel diesel oil and cell wall structure of some Scenedesmus (Chlorococcales) strains. Acta Societatis Botanicorum Poloniae, 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 Desmodesmus (green algae) strains to chloridazon: A study with synchronized cultures. Pesticide Biochemistry and Physiology, 2013, 107, 68-77.	1.6	4
38	Mature Luffa Leaves (Luffa cylindrica L.) as a Tool for Gene Expression Analysis by Agroinfiltration. Frontiers in Plant Science, 2017, 8, 228.	1.7	4
39	The effect of fuel oil on the ultrastructure of the chlorococcal algaScenedesmus armatus. Protoplasma, 1989, 151, 47-56.	1.0	2
40	Functional characteristics of green alga Scenedesmus obliquus (Chlorophyceae): 276â€“6 wild type and its two photosystems deficient mutants cultured under photoautotrophic, mixotrophic and heterotrophic conditions. Phycological Research, 2011, 59, 259-268.	0.8	2
41	Growth Improvement of Nicotiana and Arabidopsis In Vitro by Microalgal Conditioned Media. Acta Biologica Cracoviensia Series Botanica, 2015, 56, 91-97.	0.5	2
42	Production of recombinant human deoxyribonuclease I in Luffa cylindrica L. and Nicotiana tabacum L.: evidence for protein secretion to the leaf intercellular space. Plant Cell, Tissue and Organ Culture, 2019, 136, 51-63.	1.2	2
43	Photosynthetic Efficiency During the Cell Cycle of the Green Alga Desmodesmus armatus Reaches Maxima in G1 Phases and Minima in G1/S Transients. , 2008, , 1053-1056.		0
44	Photoacoustic Measurements of Photosynthetic Energy Storage in Scenedesmus Armatus Exposed to â€œBalticâ€•Crude Oil. , 1995, , 4909-4912.		0