Jerzy Kruk

List of Publications by Year in descending order

66 papers	2,209 citations	218677 26 h-index	243625 44 g-index
68 all docs	68 docs citations	68 times ranked	2374 citing authors

#	Article	IF	Citations
1	Protochlorophylls in Cucurbitaceae â€“ Distribution, biosynthesis and phylogeny. Phytochemistry, 2022, 197, 113110.	2.9	0
2	Singlet oxygen oxidation products of carotenoids, fatty acids and phenolic prenyllipids. Journal of Photochemistry and Photobiology B: Biology, 2021, 216, 112148.	3.8	27
3	Photocatalytic LPOR forms helical lattices that shape membranes for chlorophyll synthesis. Nature Plants, 2021, 7, 437-444.	9.3	35
4	Oxidative stress limits growth ofChlamydomonas reinhardtii(Chlorophyta,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (Chlamy 60, 303-313.	1.4	6
5	Acylserotonins â€“ a new class of plant lipids with antioxidant activity and potential pharmacological applications. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 159044.	2.4	1
6	The inhibitor-evoked shortage of tocopherol and plastoquinol is compensated by other antioxidant mechanisms in Chlamydomonas reinhardtii exposed to toxic concentrations of cadmium and chromium ions. Ecotoxicology and Environmental Safety, 2020, 191, 110241.	6.0	19
7	Identification of new fluorophores in coelomic fluid of Eisenia andrei earthworms. PLoS ONE, 2019, 14, e0214757.	2.5	3
8	Lack of tocopherols influences the PSII antenna and the functioning of photosystems under low light. Journal of Plant Physiology, 2018, 223, 57-64.	3.5	6
9	Novel and rare prenyllipids â€“ Occurrence and biological activity. Plant Physiology and Biochemistry, 2018, 122, 1-9.	5.8	16
10	Plant-Derived Antioxidants in Disease Prevention 2018. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-2.	4.0	20
11	Improving photosynthesis, plant productivity and abiotic stress tolerance â€“ current trends and future perspectives. Journal of Plant Physiology, 2018, 231, 415-433.	3.5	110
12	Phytohormones as targets for improving plant productivity and stress tolerance. Journal of Plant Physiology, 2018, 229, 32-40.	3.5	82
13	Chemical quenching of singlet oxygen by plastoquinols and their oxidation products in Arabidopsis. Plant Journal, 2018, 95, 848-861.	5.7	22
14	MGDG, PG and SQDG regulate the activity of light-dependent protochlorophyllide oxidoreductase. Biochemical Journal, 2017, 474, 1307-1320.	3.7	29
15	Role of the NAD(P)H quinone oxidoreductase NQR and the cytochrome b AIR12 in controlling superoxide generation at the plasma membrane. Planta, 2017, 245, 807-817.	3.2	17
16	The oxidative stress in allelopathy: Participation of prenyllipid antioxidants in the response to juglone in Chlamydomonas reinhardtii. Phytochemistry, 2017, 144, 171-179.	2.9	13
17	RubisCO Early Oxygenase Activity: A Kinetic and Evolutionary Perspective. BioEssays, 2017, 39, 1700071.	2.5	17
18	Vitamin E - Occurrence, Biosynthesis by Plants and Functions in Human Nutrition. Mini-Reviews in Medicinal Chemistry, 2017, 17, 1039-1052.	2.4	37

#	Article	IF	Citations
19	Plant-Derived Antioxidants in Disease Prevention. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-2.	4.0	28
20	Powered by light: Phototrophy and photosynthesis in prokaryotes and its evolution. Microbiological Research, 2016, 186-187, 99-118.	5.3	54
21	Physiological characterization of Chlamydomonas reinhardtii acclimated to chronic stress induced by Ag, Cd, Cr, Cu and Hg ions. Ecotoxicology and Environmental Safety, 2016, 130, 133-145.	6.0	64
22	Insight into the oligomeric structure of PORA from A. thaliana. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1757-1764.	2.3	12
23	Natural variation in tocochromanols content in Arabidopsis thaliana accessions â€“ the effect of temperature and light intensity. Physiologia Plantarum, 2016, 157, 147-160.	5.2	8
24	Effect of Chlamydomonas plastid terminal oxidase 1 expressed in tobacco on photosynthetic electron transfer. Plant Journal, 2016, 85, 219-228.	5.7	29
25	Cyanobacteria use both p-hydroxybenozate and homogentisate as a precursor of plastoquinone head group. Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	14
26	Function of isoprenoid quinones and chromanols during oxidative stress in plants. New Biotechnology, 2016, 33, 636-643.	4.4	48
27	Prenyllipid antioxidants participate in response to acute stress induced by heavy metals in green microalga Chlamydomonas reinhardtii. Environmental and Experimental Botany, 2016, 123, 98-107.	4.2	30
28	Tocopherol Cyclasesâ€"Substrate Specificity and Phylogenetic Relations. PLoS ONE, 2016, 11, e0159629.	2.5	16
29	Dermal exposure of Eisenia andrei earthworms: Effects of heavy metals on metallothionein and phytochelatin synthase gene expressions in coelomocytes. Environmental Toxicology and Chemistry, 2015, 34, 1397-1404.	4.3	26
30	New prenyllipid metabolites identified in <scp>A</scp>rabidopsis during photoâ€oxidative stress. Plant, Cell and Environment, 2015, 38, 2698-2706.	5.7	11
31	Photoactive Protochlorophyllide-Enzyme Complexes Reconstituted with PORA, PORB and PORC Proteins of A. thaliana: Fluorescence and Catalytic Properties. PLoS ONE, 2015, 10, e0116990.	2.5	37
32	Physiological and antioxidant responses of two accessions of Arabidopsis thaliana in different light and temperature conditions. Physiologia Plantarum, 2015, 154, 194-209.	5.2	9
33	Immune system participates in brain regeneration and restoration of reproduction in the earthworm Dendrobaena veneta. Developmental and Comparative Immunology, 2015, 52, 269-279.	2.3	12
34	Evidence for the Involvement of Loosely Bound Plastosemiquinones in Superoxide Anion Radical Production in Photosystem II. PLoS ONE, 2014, 9, e115466.	2.5	25
35	Coregulated Genes Link Sulfide:Quinone Oxidoreductase and Arsenic Metabolism in Synechocystis sp. Strain PCC6803. Journal of Bacteriology, 2014, 196, 3430-3440.	2.2	36
36	Coelomocyte-derived fluorescence and DNA markers of composting earthworm species. Journal of Experimental Zoology, 2014, 321, 28-40.	1.2	26

#	Article	IF	Citations
37	Hydroxyâ€plastochromanol and plastoquinoneâ€‹scp>C</scp> as singlet oxygen products during photoâ€oxidative stress in <scp>A</scp>rabidopsis. Plant, Cell and Environment, 2014, 37, 1464-1473.	5.7	27
38	Plastochromanol-8: Fifty years of research. Phytochemistry, 2014, 108, 9-16.	2.9	81
39	Activity of tocopherol oxidase in Phaseolus coccineus seedlings. Acta Physiologiae Plantarum, 2013, 35, 2539-2545.	2.1	3
40	Function of plastochromanol and other biological prenyllipids in the inhibition of lipid peroxidationâ€"A comparative study in model systems. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 233-240.	2.6	37
41	Chemical proprieties of the iron-quinone complex in mutated reaction centers of Rb. sphaeroides. Hyperfine Interactions, 2012, 206, 109-114.	0.5	3
42	Plastoquinol is more active than Î±-tocopherol in singlet oxygen scavenging during high light stress of Chlamydomonas reinhardtii. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 389-394.	1.0	50
43	Singlet oxygen and non-photochemical quenching contribute to oxidation of the plastoquinone-pool under high light stress in Arabidopsis. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 705-710.	1.0	24
44	Novel vitamin E forms in leaves of Kalanchoe daigremontiana and Phaseolus coccineus. Journal of Plant Physiology, 2011, 168, 2021-2027.	3.5	33
45	Ferredoxin:NADP⁺ oxidoreductase bound to cytochrome b₆f complex is active in plastoquinone reduction: Implications for cyclic electron transport. Physiologia Plantarum, 2011, 141, 289-298.	5.2	17
46	Plastoquinol is the Main Prenyllipid Synthesized During Acclimation to High Light Conditions in Arabidopsis and is Converted to Plastochromanol by Tocopherol Cyclase. Plant and Cell Physiology, 2010, 51, 537-545.	3.1	100
47	Plastoquinol as a singlet oxygen scavenger in photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 154-162.	1.0	108
48	Tocopherol quinone content of green algae and higher plants revised by a new high-sensitive fluorescence detection method using HPLC â€“ Effects of high light stress and senescence. Journal of Plant Physiology, 2008, 165, 1238-1247.	3.5	23
49	Occurrence of neoxanthin and lutein epoxide cycle in parasitic Cuscuta species. Acta Biochimica Polonica, 2008, 55, 183-90.	0.5	0
50	RP-LC for Determination of Plastochromanol, Tocotrienols and Tocopherols in Plant Oils. Chromatographia, 2007, 66, 909-913.	1.3	78
51	Origin of Chlorophyll Fluorescence in Plants at 55-75Â°CÂ¶. Photochemistry and Photobiology, 2007, 77, 68-76.	2.5	2
52	An HPLC-based method of estimation of the total redox state of plastoquinone in chloroplasts, the size of the photochemically active plastoquinone-pool and its redox state in thylakoids of Arabidopsis. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1669-1675.	1.0	85
53	Riboflavin as a Source of Autofluorescence in Eisenia fetida Coelomocytes. Photochemistry and Photobiology, 2006, 82, 570.	2.5	56
54	Fluorescence Lifetimes Study of Î±-Tocopherol and Biological Prenylquinols in Organic Solvents and Model Membranes. Photochemistry and Photobiology, 2006, 82, 1309.	2.5	18

#	Article	IF	Citations
55	Occurrence of chlorophyll precursors in leaves of cabbage heads â€“ the case of natural etiolation. Journal of Photochemistry and Photobiology B: Biology, 2005, 80, 187-194.	3.8	23
56	Tocopherol as singlet oxygen scavenger in photosystem II. Journal of Plant Physiology, 2005, 162, 749-757.	3.5	145
57	Fluorescence Lifetimes and Spectral Properties of Protochlorophyllide in Organic Solvents in Relation to the Respective Parameters In VivoÂ¶. Photochemistry and Photobiology, 2004, 79, 62-67.	2.5	19
58	Scavenging of Superoxide Generated in Photosystem I by Plastoquinol and Other Prenyllipids in Thylakoid Membranesâ€. Biochemistry, 2003, 42, 8501-8505.	2.5	59
59	The 33 kDa Protein of Photosystem II Is a Low-Affinity Calcium- and Lanthanide-Binding Protein. Biochemistry, 2003, 42, 14862-14867.	2.5	38
60	Inhibition of oxygen evolution in Photosystem II by Cu(II) ions is associated with oxidation of cytochrome b559. Biochemical Journal, 2003, 371, 597-601.	3.7	48
61	Cytochrome c is reduced mainly by plastoquinol and not by superoxide in thylakoid membranes at low and medium light intensities: its specific interaction with thylakoid membrane lipids. Biochemical Journal, 2003, 375, 215-220.	3.7	16
62	Stimulation of Oxygen Evolution in Photosystem II by Copper(II) Ions. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2002, 57, 853-857.	1.4	23
63	Title is missing!. Photosynthesis Research, 1999, 62, 273-279.	2.9	73
64	Title is missing!. Photosynthesis Research, 1998, 58, 203-209.	2.9	19
65	Antioxidant Properties of Plastoquinol and Other Biological Prenylquinols in Liposomes and Solution. Free Radical Research, 1994, 21, 409-416.	3.3	50
66	Polystichum setiferum at the Northeastern Limit of Its Distribution Range. Acta Societatis Botanicorum Poloniae, 0, 90, .	0.8	3