Hans-Erik Ãkerlund

List of Publications by Year
in descending order

85	3,507	126708	143772
papers	citations	33 h-index	57 g-index

86	86	86	1879
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Micropatterned Carbon-on-Quartz Electrode Chips for Photocurrent Generation from Thylakoid Membranes. ACS Applied Energy Materials, 2018, 1, 3313-3322.	2.5	16
2	Supercapacitive Photoâ€Bioanodes and Biosolar Cells: A Novel Approach for Solar Energy Harnessing. Advanced Energy Materials, 2017, 7, 1602285.	10.2	53
3	Supercapacitive Biosolar Cell Driven by Direct Electron Transfer between Photosynthetic Membranes and CNT Networks with Enhanced Performance. ACS Energy Letters, 2017, 2, 2635-2639.	8.8	33
4	Photoâ€Biosupercapacitors: Supercapacitive Photoâ€Bioanodes and Biosolar Cells: A Novel Approach for Solar Energy Harnessing (Adv. Energy Mater. 12/2017). Advanced Energy Materials, 2017, 7, .	10.2	1
5	Wiring of Photosystemâ€…I and Hydrogenase on an Electrode for Photoelectrochemical H 2 Production by using Redox Polymers for Relatively Positive Onset Potential. ChemElectroChem, 2017, 4, 90-95.	1.7	53
6	Functional and structural characterization of domain truncated violaxanthin deâ€epoxidase. Physiologia Plantarum, 2016, 157, 414-421.	2.6	4
7	Molecular studies on structural changes and oligomerisation of violaxanthin de-epoxidase associated with the pH-dependent activation. Photosynthesis Research, 2016, 129, 29-41.	1.6	16
8	Violaxanthin de-epoxidase disulphides and their role in activity and thermal stability. Photosynthesis Research, 2015, 124, 191-198.	1.6	12
9	Photocurrent Generation from Thylakoid Membranes on Osmiumâ€Redoxâ€Polymerâ€Modified Electrodes. ChemSusChem, 2015, 8, 990-993.	3.6	60
10	Photoelectrochemical Communication between Thylakoid Membranes and Gold Electrodes through Different Quinone Derivatives. ChemElectroChem, 2014, 1, 131-139.	1.7	61
11	Pancreatic lipaseâ€“colipase binds strongly to the thylakoid membrane surface. Journal of the Science of Food and Agriculture, 2013, 93, 2254-2258.	1.7	11
12	Post harvest improvement of zeaxanthin content of vegetables. Journal of Food Engineering, 2010, 98, 192-197.	2.7	5
13	Thioredoxin targets of the plant chloroplast lumen and their implications for plastid function. Proteomics, 2010, 10, 987-1001.	1.3	89
14	A LARGE SCALE METHOD FOR PREPARATION OF PLANT THYLAKOIDS FOR USE IN BODY WEIGHT REGULATION. Preparative Biochemistry and Biotechnology, 2009, 40, 13-27.	1.0	36
15	A Second Pathway to Degrade Pyrimidine Nucleic Acid Precursors in Eukaryotes. Journal of Molecular Biology, 2008, 380, 656-666.	2.0	47
16	Laurdan fluorescence spectroscopy in the thylakoid bilayer: The effect of violaxanthin to zeaxanthin conversion on the galactolipid dominated lipid environment. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 348-355.	1.4	25
17	The Mitochondrial External NADPH Dehydrogenase Modulates the Leaf NADPH/NADP+ Ratio in Transgenic Nicotiana sylvestris. Plant and Cell Physiology, 2008, 49, 251-263.	1.5	43
18	Chloroplast membranes retard fat digestion and induce satiety: effect of biological membranes on pancreatic lipase/co-lipase. Biochemical Journal, 2007, 401, 727-733.	1.7	68

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19	Membrane curvature stress controls the maximal conversion of violaxanthin to zeaxanthin in the violaxanthin cycleâ€"influence of Î±-tocopherol, cetylethers, linolenic acid, and temperature. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2310-2318.	1.4	19
20	Phase Partition-A Method for Purification and Analysis of Cell Organelles and Membrane Vesicles. Methods of Biochemical Analysis, 2006, 28, 115-150.	0.2	131
21	Protease activities in the chloroplast capable of cleaving an LHCII N-terminal peptide. Physiologia Plantarum, 2005, 123, 21-29.	2.6	22
22	Role of histidines in the binding of violaxanthin de-epoxidase to the thylakoid membrane as studied by site-directed mutagenesis. Physiologia Plantarum, 2004, 122, 337-343.	2.6	23
23	Sucrose synthase isoforms in cultured tobacco cells. Plant Physiology and Biochemistry, 2004, 42, 299-306.	2.8	17
24	Violaxanthin De-Epoxidase, the Xanthophyll Cycle Enzyme, Requires Lipid Inverted Hexagonal Structures for Its Activity. Biochemistry, 2004, 43, 4417-4420.	1.2	102
25	Chemical and mutational modification of histidines in violaxanthin de-epoxidase from Spinacia oleracea. Physiologia Plantarum, 2003, 119, 97-104.	2.6	19
26	Interaction between phosphofructokinase and aldolase from Saccharomyces cerevisiae studied by aqueous two-phase partitioning. Biomedical Applications, 2001, 751, 341-348.	1.7	5
27	Enzymes and Mechanisms for Violaxanthin-zeaxanthin Conversion. Advances in Photosynthesis and Respiration, 2001, , 433-452.	1.0	19
28	Isolation of Inside-Out Thylakoid Vesicles. , 2000, , 167-175.		0
29	Partition by Countercurrent Distribution (CCD). , 2000, , 55-64.		2
30	Regulatory Role of the N Terminus of the Vacuolar Calcium-ATPase in Cauliflower. Plant Physiology, 2000, 122, 517-526.	2.3	34
31	Title is missing!. Photosynthesis Research, 1998, 57, 41-50.	1.6	58
32	The xanthophyll cycle, its regulation and components. Physiologia Plantarum, 1997, 100, 806-816.	2.6	72
33	The xanthophyll cycle, its regulation and components. Physiologia Plantarum, 1997, 100, 806-816.	2.6	298
34	Title is missing!. Photosynthesis Research, 1997, 52, 39-48.	1.6	43
35	Purification and identification of the violaxanthin deepoxidase as a 43 kDa protein. Photosynthesis Research, 1996, 49, 119-129.	1.6	54
36	Partial Purification of the Violaxanthin de-Epoxidase. , 1995, , 3067-3070.		1

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37	Regulation of Violaxanthin De-Epoxidase Activity by pH and Ascorbate Concentration. , 1995, , 3015-3018.		0
38	[8] Thin-layer countercurrent distribution and centrifugal countercurrent distribution apparatus. Methods in Enzymology, 1994, , 87-99.	0.4	6
39	Isolation of pigment-free bulk lipids from thylakoids. Lipids and Lipid Metabolism, 1993, 1165, 288-290.	2.6	11
40	Induction and activation of the alternative oxidase of potato tuber mitochondria. Physiologia Plantarum, 1993, 87, 134-141.	2.6	16
41	Function and Organization of Photosystem II. , 1993, , 419-446.		5
42	The Catalase-Like Activity Associated with Photosystem II does not Require the Manganese Cluster. , 1990, , 897-900.		1
43	Oxygen Evolution from H2O2 and H2O in Relation to Mn Content. , 1989, , 259-262.		0
44	Isolation of the Chlorophyll a/b Protein Complex CP29. , 1989, , 137-140.		0
45	Regulation of Carbon Partitioning in Photosynthetic Tissue. Photochemistry and Photobiology, 1988, 47, 165-165.	1.3	1
46	Characterization of low molecular mass proteins of photosystem II by N-terminal sequencing. FEBS Letters, 1988, 235, 289-292.	1.3	28
47	[26] Isolation procedures for inside-out thylakoid vesicles. Methods in Enzymology, 1987, 148, 252-259.	0.4	1
48	Low Molecular Weight Polypeptides in Photosystem II and Protein Dependent Acceptor Requirement for Photosystem II. , 1987, , 125-128.		9
49	Small Polypeptides in Oxygen-Evolving Photosystem II Core Preparations.. Acta Chemica Scandinavica, 1987, 41b, 129-131.	0.7	1
50	The presence of low-molecular-weight polypeptides in spinach Photosystem II core preparations. Isolation of a 5 kDa hydrophilic polypeptide. Biochimica Et Biophysica Acta - Bioenergetics, 1986, 849, 112-120.	0.5	55
51	H2O2 accessibility to the Photosystem II donor side in protein-depleted inside-out thylakoids measured as flash-induced oxygen production. Biochimica Et Biophysica Acta - Bioenergetics, 1986, 848, 359-363.	0.5	61
52	Proteins of the photosynthetic oxygen-evolving system. Biochemical Society Transactions, 1986, 14, 8-9.	1.6	1
53	Polypeptides of the oxygen-evolving complex of Photosystem II in cyanobacteria. Biochemical Society Transactions, 1986, 14, 35-36.	1.6	0
54	Isolation and characterization of the 10-kDa and 22-kDa polypeptides of higher plant photosystem 2. FEBS Journal, 1986, 158, 477-482.	0.2	128

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55	Partitioning of Plant Cells, Cell Walls, Membranes, and Organelles. , 1985, , 497-527.		2
56	Fractionation of thylakoid membrane components by extraction in aqueous polymer two-phase systems containing detergent. Journal of Chromatography A, 1985, 323, 363-372.	1.8	6
57	Inside-out thylakoid vesicles. An important tool for the characterization of the photosynthetic membrane. Physiologia Plantarum, 1985, 65, 322-330.	2.6	44
58	An affinity-ligand gradient technique for purification of enzymes by counter-current distribution. Journal of Biotechnology, 1985, 2, 225-237.	1.9	29
59	Discrimination by immunological analysis between two 33â€“34 kDa polypeptides involved in photosynthetic oxygen evolution. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 809, 288-290.	0.5	8
60	Studies on the polypeptide composition of the cyanobacterial oxygen-evolving complex. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 808, 353-362.	0.5	81
61	Counter-current distribution of yeast enzymes with polymer-bound triazine dye affinity ligands. Journal of Chromatography A, 1984, 298, 483-493.	1.8	50
62	Liquidâ€”liquid extraction of membranes from calf brain using conventional and centrifugal counter-current distribution techniques. Biomedical Applications, 1984, 311, 277-289.	1.7	18
63	An appratus for counter-current distribution in a centrifugal acceleration field. Journal of Proteomics, 1984, 9, 133-141.	2.4	73
64	The release of a 10-kDa polypeptide from everted photosystem II thylakoid membranes by alkaline tris. FEBS Letters, 1984, 175, 255-258.	1.3	54
65	Effect of partial removal and readdition of a 23 kilodalton protein on oxygen yield and flash-induced absorbance changes at 320 nm of inside-out thylakoids. Biochimica Et Biophysica Acta - Bioenergetics, 1984, 765, 1-6.	0.5	25
66	Reversible alteration of nanosecond reduction of chlorophyll a+II in inside-out thylakoids correlated to inhibition and reconstitution of oxygen-evolving activity. Biochimica Et Biophysica Acta - Bioenergetics, 1984, 765, 7-11.	0.5	25
67	Immunological studies on the organization of proteins in photosynthetic oxygen evolution. Biochimica Et Biophysica Acta - Bioenergetics, 1984, 766, 21-28.	0.5	80
68	EPR studies on the photosystem II donor side in salt-washed and reconstituted inside-out thylakoids. Biochemical and Biophysical Research Communications, 1984, 124, 269-276.	1.0	8
69	Reconstitution of oxygen evolution in high salt washed photosystem II particles. Biochemical and Biophysical Research Communications, 1983, 113, 738-744.	1.0	28
70	Quantitative separation of spinach thylakoids into Photosystem II-enriched inside-out vesicles and Photosystem I-enriched right-side-out vesicles. Biochimica Et Biophysica Acta - Bioenergetics, 1983, 725, 34-40.	0.5	68
71	POLYPEPTIDES INVOLVED IN PHOTOSYNTHETIC OXYGEN EVOLUTION WITH SPECIAL EMPHASIS ON A 23 KDALTON PROTEIN. , 1983, , 201-208.		8
72	ON THE FUNCTIONAL ROLE OF A 23 kD-POLYPEPTIDE FOR PHOTOSYNTHETIC WATER OXIDATION. , 1983, , 209-212.		3

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73	Reconstitution of photosynthetic water splitting in inside-out thylakoid vesicles and identification of a participating polypeptide. Biochimica Et Biophysica Acta - Bioenergetics, 1982, 681, 1-10.	0.5	213
74	Conformational change in pancreatic lipase induced by colipase. FEBS Letters, 1982, 144, 38-42.	1.3	12
75	Differential phosphorylation of the light-harvesting chlorophyll-protein complex in appressed and non-appressed regions of the thylakoid membrane. FEBS Letters, 1982, 149, 181-185.	1.3	70
76	Reactivation of photosynthetic oxygen evolution in tris-inactivated inside-out photosystem II vesicles from spinach. Carlsberg Research Communications, 1982, 47, 187-198.	1.7	24
77	Organization and Function of the Chloroplast Thylakoid Membrane Obtained from Studies on Inside-Out Vesicles. , 1982, , 625-631.		3
78	Localization of a 34 000 and a 23 000 M r polypeptide to the lumenal side of the thylakoid membrane. FEBS Letters, 1981, 124, 229-232.	1.3	142
79	Isoelectric points of spinach thylakoid membrane surfaces as determined by cross partition. Biochimica Et Biophysica Acta - Biomembranes, 1979, 552, 238-246.	1.4	71
80	Trypsination of inside-out chloroplast thylakoid vesicles for localization of the water-splitting site. FEBS Letters, 1979, 105, 177-180.	1.3	28
81	Electric evidence for the isolation of inside-out vesicles from spinach chloroplasts. FEBS Letters, 1978, 96, 233-237.	1.3	18
82	Inside-out membrane vesicles isolated from spinach thylakoids. Biochimica Et Biophysica Acta - Bioenergetics, 1978, 503, 462-472.	0.5	151
83	Light-induced reversible proton extrusion by spinach-chloroplast photosystem II vesicles isolated by phase partition. FEBS Letters, 1977, 77, 141-145.	1.3	58
84	Separation of subchloroplast membrane particles by counter-current distribution. Biochimica Et Biophysica Acta - Bioenergetics, 1976, 423, 122-132.	0.5	91
85	Isolation of Photosystem II enriched membrane vesicles from spinach chloroplasts by phase partition. Biochimica Et Biophysica Acta - Bioenergetics, 1976, 449, 525-535.	0.5	119