

Michel Havaux

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

9,840
citations

56
h-index

99
g-index

106
ext. papers

11,073
ext. citations

6.6
avg, IF

6.54
L-index

#	Paper	IF	Citations
102	Plastoquinone homeostasis in plant acclimation to light intensity.. <i>Photosynthesis Research</i> , 2022 , 1	3.7	0
101	A manipulation of carotenoid metabolism influence biomass partitioning and fitness in tomato.. <i>Metabolic Engineering</i> , 2022 ,	9.7	2
100	Determination of ROS-Induced Lipid Peroxidation by HPLC-Based Quantification of Hydroxy Polyunsaturated Fatty Acids. <i>Methods in Molecular Biology</i> , 2022 , 181-189	1.4	1
99	Luminescence imaging of leaf damage induced by lipid peroxidation products and its modulation by Ecylocitral. <i>Physiologia Plantarum</i> , 2021 , 171, 246-259	4.6	5
98	A Multi-OMICs Approach Sheds Light on the Higher Yield Phenotype and Enhanced Abiotic Stress Tolerance in Tobacco Lines Expressing the Carrot EGene. <i>Frontiers in Plant Science</i> , 2021 , 12, 624365	6.2	5
97	Mutation of the Atypical Kinase ABC1K3 Partially Rescues the PROTON GRADIENT REGULATION 6 Phenotype in. <i>Frontiers in Plant Science</i> , 2020 , 11, 337	6.2	14
96	Endoplasmic reticulum-mediated unfolded protein response is an integral part of singlet oxygen signalling in plants. <i>Plant Journal</i> , 2020 , 102, 1266-1280	6.9	13
95	Interplay between antioxidants in response to photooxidative stress in Arabidopsis. <i>Free Radical Biology and Medicine</i> , 2020 , 160, 894-907	7.8	7
94	Tanned or Sunburned: How Excessive Light Triggers Plant Cell Death. <i>Molecular Plant</i> , 2020 , 13, 1545-1554	5.4	8
93	Ecylocitral and derivatives: Emerging molecular signals serving multiple biological functions. <i>Plant Physiology and Biochemistry</i> , 2020 , 155, 35-41	5.4	22
92	Plastoquinone In and Beyond Photosynthesis. <i>Trends in Plant Science</i> , 2020 , 25, 1252-1265	13.1	21
91	The Apocarotenoid Ecylocitric Acid Elicits Drought Tolerance in Plants. <i>iScience</i> , 2019 , 19, 461-473	6.1	30
90	The function of PROTOPORPHYRINOGEN IX OXIDASE in chlorophyll biosynthesis requires oxidised plastoquinone in. <i>Communications Biology</i> , 2019 , 2, 159	6.7	16
89	Plastoquinone homoeostasis by proton gradient regulation 6 is essential for photosynthetic efficiency. <i>Communications Biology</i> , 2019 , 2, 220	6.7	14
88	OXI1 and DAD Regulate Light-Induced Cell Death Antagonistically through Jasmonate and Salicylate Levels. <i>Plant Physiology</i> , 2019 , 180, 1691-1708	6.6	16
87	Sensing Ecarotene oxidation in photosystem II to master plant stress tolerance. <i>New Phytologist</i> , 2019 , 223, 1776-1783	9.8	40
86	The plastoquinone pool outside the thylakoid membrane serves in plant photoprotection as a reservoir of singlet oxygen scavengers. <i>Plant, Cell and Environment</i> , 2018 , 41, 2277-2287	8.4	19

85	Resistance of native oak to recurrent drought conditions simulating predicted climatic changes in the Mediterranean region. <i>Plant, Cell and Environment</i> , 2018 , 41, 2299-2312	8.4	12
84	Chemical quenching of singlet oxygen by plastoquinols and their oxidation products in Arabidopsis. <i>Plant Journal</i> , 2018 , 95, 848	6.9	14
83	The Plastid Lipocalin LCNP Is Required for Sustained Photoprotective Energy Dissipation in Arabidopsis. <i>Plant Cell</i> , 2018 , 30, 196-208	11.6	56
82	Decoding E-cyclocitral-Mediated Retrograde Signaling Reveals the Role of a Detoxification Response in Plant Tolerance to Photooxidative Stress. <i>Plant Cell</i> , 2018 , 30, 2495-2511	11.6	62
81	Enzymatic and Non-Enzymatic Mechanisms Contribute to Lipid Oxidation During Seed Aging. <i>Plant and Cell Physiology</i> , 2017 , 58, 925-933	4.9	31
80	Carnosic Acid and Carnosol, Two Major Antioxidants of Rosemary, Act through Different Mechanisms. <i>Plant Physiology</i> , 2017 , 175, 1381-1394	6.6	70
79	METHYLENE BLUE SENSITIVITY 1 (MBS1) is required for acclimation of Arabidopsis to singlet oxygen and acts downstream of E-cyclocitral. <i>Plant, Cell and Environment</i> , 2017 , 40, 216-226	8.4	50
78	Uncoupling High Light Responses from Singlet Oxygen Retrograde Signaling and Spatial-Temporal Systemic Acquired Acclimation. <i>Plant Physiology</i> , 2016 , 171, 1734-49	6.6	49
77	Singlet Oxygen-Induced Cell Death in Arabidopsis under High-Light Stress Is Controlled by OX11 Kinase. <i>Plant Physiology</i> , 2016 , 170, 1757-71	6.6	71
76	Circadian Stress Regimes Affect the Circadian Clock and Cause Jasmonic Acid-Dependent Cell Death in Cytokinin-Deficient Arabidopsis Plants. <i>Plant Cell</i> , 2016 , 28, 1616-39	11.6	51
75	2-cysteine peroxiredoxins and thylakoid ascorbate peroxidase create a water-water cycle that is essential to protect the photosynthetic apparatus under high light stress conditions. <i>Plant Physiology</i> , 2015 , 167, 1592-603	6.6	90
74	Plant tolerance to excess light energy and photooxidative damage relies on plastoquinone biosynthesis. <i>Scientific Reports</i> , 2015 , 5, 10919	4.9	60
73	A proposed interplay between peroxidase, amine oxidase and lipoxygenase in the wounding-induced oxidative burst in <i>Pisum sativum</i> seedlings. <i>Phytochemistry</i> , 2015 , 112, 130-8	4	28
72	Key players of singlet oxygen-induced cell death in plants. <i>Frontiers in Plant Science</i> , 2015 , 6, 39	6.2	82
71	Arabidopsis lipocalins AtCHL and AtTIL have distinct but overlapping functions essential for lipid protection and seed longevity. <i>Plant, Cell and Environment</i> , 2014 , 37, 368-81	8.4	43
70	Dihydroactinidiolide, a high light-induced E-carotene derivative that can regulate gene expression and photoacclimation in Arabidopsis. <i>Molecular Plant</i> , 2014 , 7, 1248-51	14.4	67
69	Carotenoid oxidation products as stress signals in plants. <i>Plant Journal</i> , 2014 , 79, 597-606	6.9	271
68	Beyond Non-Photochemical Fluorescence Quenching: The Overlapping Antioxidant Functions of Zeaxanthin and Tocopherols. <i>Advances in Photosynthesis and Respiration</i> , 2014 , 583-603	1.7	20

67	A drought-sensitive barley variety displays oxidative stress and strongly increased contents in low-molecular weight antioxidant compounds during water deficit compared to a tolerant variety. <i>Journal of Plant Physiology</i> , 2013 , 170, 633-45	3.6	43
66	Promotion of cyclic electron transport around photosystem I during the evolution of NADP-malic enzyme-type C4 photosynthesis in the genus <i>Flaveria</i> . <i>New Phytologist</i> , 2013 , 199, 832-42	9.8	48
65	Thioredoxin m4 controls photosynthetic alternative electron pathways in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013 , 161, 508-20	6.6	76
64	Light-induced acclimation of the <i>Arabidopsis chlorina1</i> mutant to singlet oxygen. <i>Plant Cell</i> , 2013 , 25, 1445-62	11.6	110
63	Jasmonate: A decision maker between cell death and acclimation in the response of plants to singlet oxygen. <i>Plant Signaling and Behavior</i> , 2013 , 8, e26655	2.5	18
62	Nonenzymic carotenoid oxidation and photooxidative stress signalling in plants. <i>Journal of Experimental Botany</i> , 2013 , 64, 799-805	7	103
61	Chemical quenching of singlet oxygen by carotenoids in plants. <i>Plant Physiology</i> , 2012 , 158, 1267-78	6.6	289
60	Carotenoid oxidation products are stress signals that mediate gene responses to singlet oxygen in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5535-40	11.5	458
59	Using spontaneous photon emission to image lipid oxidation patterns in plant tissues. <i>Plant Journal</i> , 2011 , 67, 1103-15	6.9	70
58	Chloroplast lipid droplet type II NAD(P)H quinone oxidoreductase is essential for prenylquinone metabolism and vitamin K1 accumulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14354-9	11.5	62
57	Enhanced photoprotection by protein-bound vs free xanthophyll pools: a comparative analysis of chlorophyll b and xanthophyll biosynthesis mutants. <i>Molecular Plant</i> , 2010 , 3, 576-93	14.4	136
56	<i>Arabidopsis thaliana</i> plastidial methionine sulfoxide reductases B, MSRBs, account for most leaf peptide MSR activity and are essential for growth under environmental constraints through a role in the preservation of photosystem antennae. <i>Plant Journal</i> , 2010 , 61, 271-82	6.9	56
55	Vitamin B6 deficient plants display increased sensitivity to high light and photo-oxidative stress. <i>BMC Plant Biology</i> , 2009 , 9, 130	5.3	89
54	The chloroplastic lipocalin AtCHL prevents lipid peroxidation and protects <i>Arabidopsis</i> against oxidative stress. <i>Plant Journal</i> , 2009 , 60, 691-702	6.9	60
53	Singlet oxygen in plants: production, detoxification and signaling. <i>Trends in Plant Science</i> , 2009 , 14, 219-28	28.1	498
52	A large gene cluster encoding peptide synthetases and polyketide synthases is involved in production of siderophores and oxidative stress response in the cyanobacterium <i>Anabaena</i> sp. strain PCC 7120. <i>Environmental Microbiology</i> , 2008 , 10, 2574-85	5.2	32
51	The PsaE subunit of photosystem I prevents light-induced formation of reduced oxygen species in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008 , 1777, 308-16	4.6	28
50	Tocotrienols, the unsaturated forms of vitamin E, can function as antioxidants and lipid protectors in tobacco leaves. <i>Plant Physiology</i> , 2008 , 147, 764-78	6.6	63

49	Singlet oxygen is the major reactive oxygen species involved in photooxidative damage to plants. <i>Plant Physiology</i> , 2008 , 148, 960-8	6.6	399
48	Vitamin E is essential for the tolerance of <i>Arabidopsis thaliana</i> to metal-induced oxidative stress. <i>Plant, Cell and Environment</i> , 2008 , 31, 244-57	8.4	115
47	Elevated zeaxanthin bound to oligomeric LHCII enhances the resistance of <i>Arabidopsis</i> to photooxidative stress by a lipid-protective, antioxidant mechanism. <i>Journal of Biological Chemistry</i> , 2007 , 282, 22605-18	5.4	134
46	The light stress-induced protein ELIP2 is a regulator of chlorophyll synthesis in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2007 , 50, 795-809	6.9	108
45	Chlorophyll thermofluorescence and thermoluminescence as complementary tools for the study of temperature stress in plants. <i>Photosynthesis Research</i> , 2007 , 93, 159-71	3.7	43
44	Zeaxanthin has enhanced antioxidant capacity with respect to all other xanthophylls in <i>Arabidopsis</i> leaves and functions independent of binding to PSII antennae. <i>Plant Physiology</i> , 2007 , 145, 1506-20	6.6	301
43	Lutein is needed for efficient chlorophyll triplet quenching in the major LHCII antenna complex of higher plants and effective photoprotection in vivo under strong light. <i>BMC Plant Biology</i> , 2006 , 6, 32	5.3	193
42	Suppression of both ELIP1 and ELIP2 in <i>Arabidopsis</i> does not affect tolerance to photoinhibition and photooxidative stress. <i>Plant Physiology</i> , 2006 , 141, 1264-73	6.6	77
41	Autoluminescence imaging: a non-invasive tool for mapping oxidative stress. <i>Trends in Plant Science</i> , 2006 , 11, 480-4	13.1	74
40	The chlorophyll-binding protein IsiA is inducible by high light and protects the cyanobacterium <i>Synechocystis</i> PCC6803 from photooxidative stress. <i>FEBS Letters</i> , 2005 , 579, 2289-93	3.8	99
39	Probing the FQR and NDH activities involved in cyclic electron transport around Photosystem I by the 'afterglow' luminescence. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005 , 1709, 203-13	4.6	42
38	Cyclic electron flow around PSI monitored by afterglow luminescence in leaves of maize inbred lines (<i>Zea mays</i> L.): correlation with chilling tolerance. <i>Planta</i> , 2005 , 221, 567-79	4.7	33
37	Vitamin E protects against photoinhibition and photooxidative stress in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2005 , 17, 3451-69	11.6	384
36	Photo-oxidative stress in a xanthophyll-deficient mutant of <i>Chlamydomonas</i> . <i>Journal of Biological Chemistry</i> , 2004 , 279, 6337-44	5.4	94
35	The effect of zeaxanthin as the only xanthophyll on the structure and function of the photosynthetic apparatus in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2004 , 279, 13878-88	5.4	123
34	Early light-induced proteins protect <i>Arabidopsis</i> from photooxidative stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 4921-6	11.5	233
33	Cadmium distribution and microlocalization in oilseed rape (<i>Brassica napus</i>) after long-term growth on cadmium-contaminated soil. <i>Planta</i> , 2003 , 216, 939-50	4.7	156
32	A photosystem 1 psaFJ-null mutant of the cyanobacterium <i>Synechocystis</i> PCC 6803 expresses the isiAB operon under iron replete conditions. <i>FEBS Letters</i> , 2003 , 549, 52-6	3.8	54

31	Elimination of high-light-inducible polypeptides related to eukaryotic chlorophyll a/b-binding proteins results in aberrant photoacclimation in <i>Synechocystis</i> PCC6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003 , 1557, 21-33	4.6	116
30	Spontaneous and thermoinduced photon emission: new methods to detect and quantify oxidative stress in plants. <i>Trends in Plant Science</i> , 2003 , 8, 409-13	13.1	94
29	Chloroplast membrane photostability in chlP transgenic tobacco plants deficient in tocopherols. <i>Plant Physiology</i> , 2003 , 132, 300-10	6.6	80
28	Photosynthesis and state transitions in mitochondrial mutants of <i>Chlamydomonas reinhardtii</i> affected in respiration. <i>Plant Physiology</i> , 2003 , 133, 2010-20	6.6	106
27	Zeaxanthin deficiency enhances the high light sensitivity of an ascorbate-deficient mutant of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2003 , 133, 748-60	6.6	140
26	Double mutation cpSRP43 ⁻ /cpSRP54 ⁻ is necessary to abolish the cpSRP pathway required for thylakoid targeting of the light-harvesting chlorophyll proteins. <i>Plant Journal</i> , 2002 , 29, 531-43	6.9	65
25	Cyclic electron flow around photosystem I in C(3) plants. In vivo control by the redox state of chloroplasts and involvement of the NADH-dehydrogenase complex. <i>Plant Physiology</i> , 2002 , 128, 760-9	6.6	164
24	Leaf chlorosis in oilseed rape plants (<i>Brassica napus</i>) grown on cadmium-polluted soil: causes and consequences for photosynthesis and growth. <i>Planta</i> , 2001 , 212, 696-709	4.7	284
23	The protective functions of carotenoid and flavonoid pigments against excess visible radiation at chilling temperature investigated in <i>Arabidopsis</i> npq and tt mutants. <i>Planta</i> , 2001 , 213, 953-66	4.7	268
22	PSII-S gene expression, photosynthetic activity and abundance of plastid thioredoxin-related and lipid-associated proteins during chilling stress in <i>Solanum</i> species differing in freezing resistance. <i>Physiologia Plantarum</i> , 2001 , 113, 72-78	4.6	23
21	Salt shock-inducible photosystem I cyclic electron transfer in <i>Synechocystis</i> PCC6803 relies on binding of ferredoxin:NADP(+) reductase to the thylakoid membranes via its CpcD phycobilisome-linker homologous N-terminal domain. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000 , 1457, 129-44	4.6	72
20	Photodamage of the photosynthetic apparatus and its dependence on the leaf developmental stage in the npq1 <i>Arabidopsis</i> mutant deficient in the xanthophyll cycle enzyme violaxanthin de-epoxidase. <i>Plant Physiology</i> , 2000 , 124, 273-84	6.6	201
19	Flavodoxin accumulation contributes to enhanced cyclic electron flow around photosystem I in salt-stressed cells of <i>Synechocystis</i> sp. strain PCC 6803. <i>Physiologia Plantarum</i> , 1999 , 105, 670-678	4.6	45
18	Photosynthetic light-harvesting function of carotenoids in higher-plant leaves exposed to high light irradiances. <i>Planta</i> , 1998 , 205, 242-250	4.7	26
17	Carotenoids as membrane stabilizers in chloroplasts. <i>Trends in Plant Science</i> , 1998 , 3, 147-151	13.1	501
16	Differential control of xanthophylls and light-induced stress proteins, as opposed to light-harvesting chlorophyll a/b proteins, during photosynthetic acclimation of barley leaves to light irradiance. <i>Plant Physiology</i> , 1998 , 118, 227-35	6.6	65
15	Probing Electron Transport through and around Photosystem II in vivo by the Combined Use of Photoacoustic Spectroscopy and Chlorophyll Fluorometry. <i>Israel Journal of Chemistry</i> , 1998 , 38, 247-256 ³⁻⁴		12
14	Thylakoid membrane fluidity and thermostability during the operation of the xanthophyll cycle in higher-plant chloroplasts. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997 , 1330, 179-93	3.8	89

13	Photoacoustically monitored thermal energy dissipation and xanthophyll cycle carotenoids in higher plant leaves. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1997 , 40, 68-75	6.7	12
12	Photosynthesis, chlorophyll fluorescence, light-harvesting system and photoinhibition resistance of a zeaxanthin-accumulating mutant of <i>Arabidopsis thaliana</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1996 , 34, 87-94	6.7	71
11	Temperature-dependent adjustment of the thermal stability of photosystem II in vivo: possible involvement of xanthophyll-cycle pigments. <i>Planta</i> , 1996 , 198, 324-333	4.7	161
10	Short-term responses of Photosystem I to heat stress : Induction of a PS II-independent electron transport through PS I fed by stromal components. <i>Photosynthesis Research</i> , 1996 , 47, 85-97	3.7	190
9	The cyclic electron pathways around photosystem I in <i>Chlamydomonas reinhardtii</i> as determined in vivo by photoacoustic measurements of energy storage. <i>Planta</i> , 1994 , 193, 251	4.7	86
8	Photoinhibition of photosynthesis in chilled potato leaves is not correlated with a loss of Photosystem-II activity : Preferential inactivation of Photosystem I. <i>Photosynthesis Research</i> , 1994 , 40, 75-92	3.7	140
7	The protective function of the xanthophyll cycle in photosynthesis. <i>FEBS Letters</i> , 1994 , 353, 147-50	3.8	62
6	Characterization of thermal damage to the photosynthetic electron transport system in potato leaves. <i>Plant Science</i> , 1993 , 94, 19-33	5.3	192
5	A theoretical and experimental analysis of the qP and q N coefficients of chlorophyll fluorescence quenching and their relation to photochemical and nonphotochemical events. <i>Photosynthesis Research</i> , 1991 , 27, 41-55	3.7	233
4	ENERGY-DEPENDENT QUENCHING OF CHLOROPHYLL FLUORESCENCE and THERMAL ENERGY DISSIPATION IN INTACT LEAVES DURING INDUCTION OF PHOTOSYNTHESIS. <i>Photochemistry and Photobiology</i> , 1990 , 51, 481-486	3.6	12
3	Rapid screening for heat tolerance in <i>Phaseolus</i> species using the photoacoustic technique. <i>Plant Science</i> , 1987 , 48, 143-149	5.3	12
2	Photosynthetic responses of leaves to water stress, expressed by photoacoustics and related methods : I. Probing the photoacoustic method as an indicator for water stress in vivo. <i>Plant Physiology</i> , 1986 , 82, 827-33	6.6	55
1	Escalonic acid: a new apocarotenoid eliciting drought tolerance in plants		1