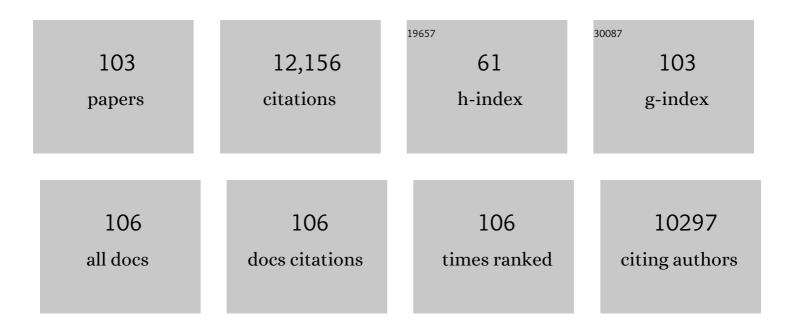
## Michel Havaux

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5474997/publications.pdf Version: 2024-02-01



ΜΙCHEL ΗΛΥΛΙΙΧ

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A manipulation of carotenoid metabolism influence biomass partitioning and fitness in tomato.<br>Metabolic Engineering, 2022, 70, 166-180.  | 7.0 | 19        |
| 2  | Plastoquinone homeostasis in plant acclimation to light intensity. Photosynthesis Research, 2022, , 1.  | 2.9 | 7         |
| 3  | A guanosine tetraphosphate (ppGpp) mediated brake on photosynthesis is required for acclimation to nitrogen limitation in Arabidopsis. ELife, 2022, 11, .   | 6.0 | 19        |
| 4  | Determination of ROS-Induced Lipid Peroxidation by HPLC-Based Quantification of Hydroxy<br>Polyunsaturated Fatty Acids. Methods in Molecular Biology, 2022, , 181-189.  | 0.9 | 3         |
| 5  | Imaging of Lipid Peroxidation-Associated Chemiluminescence in Plants: Spectral Features, Regulation and Origin of the Signal in Leaves and Roots. Antioxidants, 2022, 11, 1333.   | 5.1 | 2         |
| 6  | Luminescence imaging of leaf damage induced by lipid peroxidation products and its modulation by<br>β yclocitral. Physiologia Plantarum, 2021, 171, 246-259.  | 5.2 | 10        |
| 7  | A Multi-OMICs Approach Sheds Light on the Higher Yield Phenotype and Enhanced Abiotic Stress<br>Tolerance in Tobacco Lines Expressing the Carrot lycopene β-cyclase1 Gene. Frontiers in Plant Science,<br>2021, 12, 624365. | 3.6 | 12        |
| 8  | Tanned or Sunburned: How Excessive Light Triggers Plant Cell Death. Molecular Plant, 2020, 13,<br>1545-1555.  | 8.3 | 32        |
| 9  | β-Cyclocitral and derivatives: Emerging molecular signals serving multiple biological functions. Plant<br>Physiology and Biochemistry, 2020, 155, 35-41.  | 5.8 | 59        |
| 10 | Plastoquinone In and Beyond Photosynthesis. Trends in Plant Science, 2020, 25, 1252-1265.   | 8.8 | 58        |
| 11 | Mutation of the Atypical Kinase ABC1K3 Partially Rescues the PROTON GRADIENT REGULATION 6<br>Phenotype in Arabidopsis thaliana. Frontiers in Plant Science, 2020, 11, 337.  | 3.6 | 23        |
| 12 | Endoplasmic reticulumâ€mediated unfolded protein response is an integral part of singlet oxygen<br>signalling in plants. Plant Journal, 2020, 102, 1266-1280.   | 5.7 | 26        |
| 13 | Interplay between antioxidants in response to photooxidative stress in Arabidopsis. Free Radical<br>Biology and Medicine, 2020, 160, 894-907.   | 2.9 | 19        |
| 14 | The Apocarotenoid β-Cyclocitric Acid Elicits Drought Tolerance in Plants. IScience, 2019, 19, 461-473.  | 4.1 | 61        |
| 15 | The function of PROTOPORPHYRINOGEN IX OXIDASE in chlorophyll biosynthesis requires oxidised plastoquinone in Chlamydomonas reinhardtii. Communications Biology, 2019, 2, 159.   | 4.4 | 28        |
| 16 | Plastoquinone homoeostasis by Arabidopsis proton gradient regulation 6 is essential for photosynthetic efficiency. Communications Biology, 2019, 2, 220.  | 4.4 | 24        |
| 17 | OXI1 and DAD Regulate Light-Induced Cell Death Antagonistically through Jasmonate and Salicylate<br>Levels. Plant Physiology, 2019, 180, 1691-1708.   | 4.8 | 30        |
| 18 | Sensing βâ€carotene oxidation in photosystem <scp>II</scp> to master plant stress tolerance. New Phytologist, 2019, 223, 1776-1783.   | 7.3 | 66        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | The plastoquinone pool outside the thylakoid membrane serves in plant photoprotection as a reservoir of singlet oxygen scavengers. Plant, Cell and Environment, 2018, 41, 2277-2287.  | 5.7 | 30        |
| 20 | The Plastid Lipocalin LCNP Is Required for Sustained Photoprotective Energy Dissipation in Arabidopsis. Plant Cell, 2018, 30, 196-208.  | 6.6 | 93        |
| 21 | Decoding Î <sup>2</sup> -Cyclocitral-Mediated Retrograde Signaling Reveals the Role of a Detoxification Response in Plant Tolerance to Photooxidative Stress. Plant Cell, 2018, 30, 2495-2511.                                      | 6.6 | 108       |
| 22 | Resistance of native oak to recurrent drought conditions simulating predicted climatic changes in the <scp>Mediterranean</scp> region. Plant, Cell and Environment, 2018, 41, 2299-2312.  | 5.7 | 20        |
| 23 | Chemical quenching of singlet oxygen by plastoquinols and their oxidation products in Arabidopsis.<br>Plant Journal, 2018, 95, 848-861.   | 5.7 | 22        |
| 24 | Enzymatic and Non-Enzymatic Mechanisms Contribute to Lipid Oxidation During Seed Aging. Plant and<br>Cell Physiology, 2017, 58, 925-933.  | 3.1 | 53        |
| 25 | Carnosic Acid and Carnosol, Two Major Antioxidants of Rosemary, Act through Different<br>Mechanisms. Plant Physiology, 2017, 175, 1381-1394.  | 4.8 | 124       |
| 26 | METHYLENE BLUE SENSITIVITY 1 (MBS1) is required for acclimation of Arabidopsis to singlet oxygen and acts downstream of β yclocitral. Plant, Cell and Environment, 2017, 40, 216-226.   | 5.7 | 76        |
| 27 | Circadian Stress Regimes Affect the Circadian Clock and Cause Jasmonic Acid-Dependent Cell Death in<br>Cytokinin-Deficient Arabidopsis Plants. Plant Cell, 2016, 28, tpc.00016.2016.  | 6.6 | 66        |
| 28 | Uncoupling High Light Responses from Singlet Oxygen Retrograde Signaling and Spatial-Temporal<br>Systemic Acquired Acclimation. Plant Physiology, 2016, 171, 1734-1749.   | 4.8 | 59        |
| 29 | Singlet Oxygen-Induced Cell Death in Arabidopsis under High-Light Stress Is Controlled by OXI1 Kinase.<br>Plant Physiology, 2016, 170, 1757-1771.   | 4.8 | 100       |
| 30 | Key players of singlet oxygen-induced cell death in plants. Frontiers in Plant Science, 2015, 6, 39.  | 3.6 | 101       |
| 31 | 2-Cysteine Peroxiredoxins and Thylakoid Ascorbate Peroxidase Create a Water-Water Cycle That Is<br>Essential to Protect the Photosynthetic Apparatus under High Light Stress Conditions. Plant<br>Physiology, 2015, 167, 1592-1603. | 4.8 | 119       |
| 32 | Plant tolerance to excess light energy and photooxidative damage relies on plastoquinone biosynthesis. Scientific Reports, 2015, 5, 10919.  | 3.3 | 85        |
| 33 | A proposed interplay between peroxidase, amine oxidase and lipoxygenase in the wounding-induced oxidative burst in Pisum sativum seedlings. Phytochemistry, 2015, 112, 130-138.   | 2.9 | 34        |
| 34 | Carotenoid oxidation products as stress signals in plants. Plant Journal, 2014, 79, 597-606.  | 5.7 | 392       |
| 35 | <i><scp>A</scp>rabidopsis</i> lipocalins <scp>AtCHL</scp> and <scp>AtTIL</scp> have distinct but<br>overlapping functions essential for lipid protection and seed longevity. Plant, Cell and Environment,<br>2014, 37, 368-381.     | 5.7 | 63        |
| 36 | Dihydroactinidiolide, a High Light-Induced β-Carotene Derivative that Can Regulate Gene Expression and<br>Photoacclimation in Arabidopsis. Molecular Plant, 2014, 7, 1248-1251.   | 8.3 | 82        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Beyond Non-Photochemical Fluorescence Quenching: The Overlapping Antioxidant Functions of Zeaxanthin and Tocopherols. Advances in Photosynthesis and Respiration, 2014, , 583-603.  | 1.0 | 38        |
| 38 | A drought-sensitive barley variety displays oxidative stress and strongly increased contents in<br>low-molecular weight antioxidant compounds during water deficit compared to a tolerant variety.<br>Journal of Plant Physiology, 2013, 170, 633-645.                          | 3.5 | 51        |
| 39 | Promotion of cyclic electron transport around photosystem I during the evolution of<br><scp>NADP</scp> –malic enzymeâ€type <scp>C</scp> <sub>4</sub> photosynthesis in the genus<br><i><scp>F</scp>laveria</i> . New Phytologist, 2013, 199, 832-842.                           | 7.3 | 84        |
| 40 | Light-Induced Acclimation of the <i>Arabidopsis chlorina1</i> Mutant to Singlet Oxygen Â. Plant Cell, 2013, 25, 1445-1462.  | 6.6 | 133       |
| 41 | Jasmonate. Plant Signaling and Behavior, 2013, 8, e26655.   | 2.4 | 18        |
| 42 | Nonenzymic carotenoid oxidation and photooxidative stress signalling in plants. Journal of Experimental Botany, 2013, 64, 799-805.  | 4.8 | 135       |
| 43 | Thioredoxin m4 Controls Photosynthetic Alternative Electron Pathways in Arabidopsis  Â. Plant<br>Physiology, 2012, 161, 508-520.  | 4.8 | 100       |
| 44 | Chemical Quenching of Singlet Oxygen by Carotenoids in Plants  Â. Plant Physiology, 2012, 158, 1267-1278.   | 4.8 | 384       |
| 45 | Carotenoid oxidation products are stress signals that mediate gene responses to singlet oxygen in plants. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5535-5540.  | 7.1 | 568       |
| 46 | Using spontaneous photon emission to image lipid oxidation patterns in plant tissues. Plant Journal, 2011, 67, 1103-1115.   | 5.7 | 85        |
| 47 | Chloroplast lipid droplet type II NAD(P)H quinone oxidoreductase is essential for prenylquinone metabolism and vitamin K <sub>1</sub> accumulation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14354-14359.                    | 7.1 | 80        |
| 48 | Arabidopsis thaliana 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. Plant Journal, 2010, 61, 271-282. | 5.7 | 75        |
| 49 | Enhanced Photoprotection by Protein-Bound vs Free Xanthophyll Pools: A Comparative Analysis of<br>Chlorophyll b and Xanthophyll Biosynthesis Mutants. Molecular Plant, 2010, 3, 576-593.  | 8.3 | 168       |
| 50 | Vitamin B6 deficient plants display increased sensitivity to high light and photo-oxidative stress. BMC<br>Plant Biology, 2009, 9, 130.   | 3.6 | 122       |
| 51 | The chloroplastic lipocalin AtCHL prevents lipid peroxidation and protects Arabidopsis against oxidative stress. Plant Journal, 2009, 60, 691-702.  | 5.7 | 96        |
| 52 | Singlet oxygen in plants: production, detoxification and signaling. Trends in Plant Science, 2009, 14, 219-228.   | 8.8 | 579       |
| 53 | Vitamin E is essential for the tolerance of <i>Arabidopsis thaliana</i> to metalâ€induced oxidative stress. Plant, Cell and Environment, 2008, 31, 244-257.   | 5.7 | 167       |
| 54 | 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. Environmental Microbiology, 2008, 10, 2574-2585.                  | 3.8 | 35        |

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | The PsaE subunit of photosystem I prevents light-induced formation of reduced oxygen species in the<br>cyanobacterium Synechocystis sp. PCC 6803. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777,<br>308-316.   | 1.0 | 36        |
| 56 | Tocotrienols, the Unsaturated Forms of Vitamin E, Can Function as Antioxidants and Lipid Protectors in Tobacco Leaves. Plant Physiology, 2008, 147, 764-778.   | 4.8 | 71        |
| 57 | Singlet Oxygen Is the Major Reactive Oxygen Species Involved in Photooxidative Damage to Plants.<br>Plant Physiology, 2008, 148, 960-968.  | 4.8 | 475       |
| 58 | Zeaxanthin Has Enhanced Antioxidant Capacity with Respect to All Other Xanthophylls in Arabidopsis<br>Leaves and Functions Independent of Binding to PSII Antennae. Plant Physiology, 2007, 145, 1506-1520.                | 4.8 | 355       |
| 59 | Elevated Zeaxanthin Bound to Oligomeric LHCII Enhances the Resistance of Arabidopsis to<br>Photooxidative Stress by a Lipid-protective, Antioxidant Mechanism. Journal of Biological Chemistry,<br>2007, 282, 22605-22618. | 3.4 | 162       |
| 60 | The light stress-induced protein ELIP2 is a regulator of chlorophyll synthesis in Arabidopsis thaliana.<br>Plant Journal, 2007, 50, 795-809.   | 5.7 | 128       |
| 61 | Chlorophyll thermofluorescence and thermoluminescence as complementary tools for the study of temperature stress in plants. Photosynthesis Research, 2007, 93, 159-171.  | 2.9 | 49        |
| 62 | Autoluminescence imaging: a non-invasive tool for mapping oxidative stress. Trends in Plant Science, 2006, 11, 480-484.  | 8.8 | 87        |
| 63 | 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. BMC Plant Biology, 2006, 6, 32.                 | 3.6 | 232       |
| 64 | Suppression of Both ELIP1 and ELIP2 in Arabidopsis Does Not Affect Tolerance to Photoinhibition and Photooxidative Stress. Plant Physiology, 2006, 141, 1264-1273.   | 4.8 | 93        |
| 65 | Cyclic electron flow around PSI monitored by afterglow luminescence in leaves of maize inbred lines<br>(Zea mays L.): correlation with chilling tolerance. Planta, 2005, 221, 567-579.                                     | 3.2 | 33        |
| 66 | Vitamin E Protects against Photoinhibition and Photooxidative Stress in Arabidopsis thaliana. Plant<br>Cell, 2005, 17, 3451-3469.  | 6.6 | 446       |
| 67 | The chlorophyll-binding protein IsiA is inducible by high light and protects the cyanobacteriumSynechocystisPCC6803 from photooxidative stress. FEBS Letters, 2005, 579, 2289-2293.  | 2.8 | 119       |
| 68 | Probing the FQR and NDH activities involved in cyclic electron transport around Photosystem I by the<br>â€~afterglow' luminescence. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 203-213.                    | 1.0 | 44        |
| 69 | Photo-oxidative Stress in a Xanthophyll-deficient Mutant of Chlamydomonas. Journal of Biological<br>Chemistry, 2004, 279, 6337-6344.   | 3.4 | 110       |
| 70 | The Effect of Zeaxanthin as the Only Xanthophyll on the Structure and Function of the<br>Photosynthetic Apparatus in Arabidopsis thaliana. Journal of Biological Chemistry, 2004, 279,<br>13878-13888.                     | 3.4 | 140       |
| 71 | Cadmium distribution and microlocalization in oilseed rape (Brassica napus) after long-term growth on cadmium-contaminated soil. Planta, 2003, 216, 939-950.   | 3.2 | 179       |
| 72 | A photosystem 1psaFJ-nullmutant of the cyanobacteriumSynechocystisPCC 6803 expresses theisiABoperon under iron replete conditions. FEBS Letters, 2003, 549, 52-56.   | 2.8 | 59        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Elimination of high-light-inducible polypeptides related to eukaryotic chlorophyll a/b-binding proteins<br>results in aberrant photoacclimation in Synechocystis PCC6803. Biochimica Et Biophysica Acta -<br>Bioenergetics, 2003, 1557, 21-33.  | 1.0 | 127       |
| 74 | Spontaneous and thermoinduced photon emission: new methods to detect and quantify oxidative stress in plants. Trends in Plant Science, 2003, 8, 409-413.  | 8.8 | 99        |
| 75 | Chloroplast Membrane Photostability in chlPTransgenic Tobacco Plants Deficient in Tocopherols.<br>Plant Physiology, 2003, 132, 300-310.   | 4.8 | 85        |
| 76 | Photosynthesis and State Transitions in Mitochondrial Mutants of Chlamydomonas reinhardtii<br>Affected in Respiration. Plant Physiology, 2003, 133, 2010-2020.  | 4.8 | 119       |
| 77 | Zeaxanthin Deficiency Enhances the High Light Sensitivity of an Ascorbate-Deficient Mutant of<br>Arabidopsis. Plant Physiology, 2003, 133, 748-760.   | 4.8 | 155       |
| 78 | Early light-induced proteins protect Arabidopsis from photooxidative stress. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4921-4926.   | 7.1 | 289       |
| 79 | Cyclic Electron Flow around Photosystem I in C3Plants. In Vivo Control by the Redox State of<br>Chloroplasts and Involvement of the NADH-Dehydrogenase Complex. Plant Physiology, 2002, 128,<br>760-769.  | 4.8 | 179       |
| 80 | Double mutation cpSRP43–/cpSRP54–is necessary to abolish the cpSRP pathway required for thylakoid<br>targeting of the lightâ€harvesting chlorophyll proteins. Plant Journal, 2002, 29, 531-543.   | 5.7 | 72        |
| 81 | Leaf chlorosis in oilseed rape plants ( Brassica napus ) grown on cadmium-polluted soil: causes and consequences for photosynthesis and growth. Planta, 2001, 212, 696-709.   | 3.2 | 326       |
| 82 | The protective functions of carotenoid and flavonoid pigments against excess visible radiation at chilling temperature investigated in Arabidopsis npq and tt mutants. Planta, 2001, 213, 953-966.  | 3.2 | 318       |
| 83 | PSII-S gene expression, photosynthetic activity and abundance of plastid thioredoxin-related and<br>lipid-associated proteins during chilling stress in Solanum species differing in freezing resistance.<br>Physiologia Plantarum, 2001, 113, 72-78.   | 5.2 | 25        |
| 84 | Salt shock-inducible Photosystem I cyclic electron transfer in Synechocystis PCC6803 relies on<br>binding of ferredoxin:NADP+ reductase to the thylakoid membranes via its CpcD phycobilisome-linker<br>homologous N-terminal domain. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1457, 129-144. | 1.0 | 80        |
| 85 | Photodamage of the Photosynthetic Apparatus and Its Dependence on the Leaf Developmental Stage in<br>the npq1 Arabidopsis Mutant Deficient in the Xanthophyll Cycle Enzyme Violaxanthin De-epoxidase.<br>Plant Physiology, 2000, 124, 273-284.  | 4.8 | 218       |
| 86 | Flavodoxin accumulation contributes to enhanced cyclic electron flow around photosystem I in<br>salt-stressed cells of Synechocystis sp. strain PCC 6803. Physiologia Plantarum, 1999, 105, 670-678.  | 5.2 | 51        |
| 87 | Photosynthetic light-harvesting function of carotenoids in higher-plant leaves exposed to high light<br>irradiances. Planta, 1998, 205, 242-250.  | 3.2 | 27        |
| 88 | Carotenoids as membrane stabilizers in chloroplasts. Trends in Plant Science, 1998, 3, 147-151.   | 8.8 | 573       |
| 89 | Differential Control of Xanthophylls and Light-Induced Stress Proteins, as Opposed to<br>Light-Harvesting Chlorophyll a/bProteins, during Photosynthetic Acclimation of Barley Leaves to<br>Light Irradiance. Plant Physiology, 1998, 118, 227-235.   | 4.8 | 71        |
| 90 | Probing Electron Transport through and around Photosystem II in vivo by the Combined Use of<br>Photoacoustic Spectroscopy and Chlorophyll Fluorometry. Israel Journal of Chemistry, 1998, 38,<br>247-256.   | 2.3 | 16        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 91  | Thylakoid membrane fluidity and thermostability during the operation of the xanthophyll cycle in higher-plant chloroplasts. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1330, 179-193.   | 2.6 | 97        |
| 92  | Photoacoustically monitored thermal energy dissipation and xanthophyll cycle carotenoids in higher plant leaves. Journal of Photochemistry and Photobiology B: Biology, 1997, 40, 68-75.   | 3.8 | 14        |
| 93  | Photosynthesis, chlorophyll fluorescence, light-harvesting system and photoinhibition resistance of a zeaxanthindashaccumulating mutant of Arabidopsis thaliana. Journal of Photochemistry and Photobiology B: Biology, 1996, 34, 87-94. | 3.8 | 80        |
| 94  | Temperature-dependent adjustment of the thermal stability of photosystem II in vivo: possible involvement of xanthophyll-cycle pigments. Planta, 1996, 198, 324-333.   | 3.2 | 176       |
| 95  | Short-term responses of Photosystem I to heat stress. Photosynthesis Research, 1996, 47, 85-97.  | 2.9 | 207       |
| 96  | The cyclic electron pathways around photosystem I in Chlamydomonas reinhardtii as determined in vivo by photoacoustic measurements of energy storage. Planta, 1994, 193, 251.  | 3.2 | 103       |
| 97  | Photoinhibition of photosynthesis in chilled potato leaves is not correlated with a loss of Photosystem-II activity. Photosynthesis Research, 1994, 40, 75-92.   | 2.9 | 161       |
| 98  | The protective function of the xanthophyll cycle in photosynthesis. FEBS Letters, 1994, 353, 147-150.  | 2.8 | 67        |
| 99  | Characterization of thermal damage to the photosynthetic electron transport system in potato leaves. Plant Science, 1993, 94, 19-33.   | 3.6 | 216       |
| 100 | A theoretical and experimental analysis of the qP and qN coefficients of chlorophyll fluorescence<br>quenching and their relation to photochemical and nonphotochemical events. Photosynthesis<br>Research, 1991, 27, 41-55.             | 2.9 | 256       |
| 101 | "ENERGY"-DEPENDENT QUENCHING OF CHLOROPHYLL FLUORESCENCE and THERMAL ENERGY DISSIPATION IN<br>INTACT LEAVES DURING INDUCTION OF PHOTOSYNTHESIS. Photochemistry and Photobiology, 1990, 51,<br>481-486.                                   | 2.5 | 13        |
| 102 | Rapid screening for heat tolerance in Phaseolus species using the photoacoustic technique. Plant<br>Science, 1987, 48, 143-149.  | 3.6 | 14        |
| 103 | Photosynthetic Responses of Leaves to Water Stress, Expressed by Photoacoustics and Related Methods. Plant Physiology, 1986, 82, 827-833.  | 4.8 | 60        |