

Wim Vredenberg - Publications & Links



Publications W.J. Vredenberg, LUW, 1978-2008

Vredenberg, W.J. and A.H.C.M. Schapendonk. Evidence for a light-induced blue band shift of part of the P515 pigment pool in intact chloroplasts. *FEBS Lett.* 91, 1978, 90-93.

Schapendonk, A.H.C.M. and W.J. Vredenberg. Activation of the Reaction II component of P515 in chloroplasts by pigment system 1. *FEBS Letters* 106, 1979, 257-261.

Schapendonk, A.H.C.M., W.J. Vredenberg and W.J.M. Tonk. Studies on the kinetics of the 515 nm absorbance change in chloroplasts. I. Evidence for the induction of a fast and slow P515 response upon saturating light flashes. *FEBS Letters* 100, 1979, 325-330.

Tonk, W.J.M., A.H.C.M. Schapendonk and W.J. Vredenberg. A double-compartment mixing cuvette for measuring light- and chemically-induced absorbance changes in suspensions of energy-conserving particles. *J. of Biochemical and Biophysical Methods.* 1, 1979, 193-194.

Schapendonk, A.H.C.M., A.M. Hemrika-Wagner, A.P.R. Theuvenet, H.W. Wong Fong Sang, W.J. Vredenberg and R. Kra. Energy-dependent changes of the electrokinetic properties of chloroplasts *Biochem.* - 19, 1980, 19-22.

Vredenberg, W.J. and A.H.C.M. Schapendonk. Reaction kinetics of P515 in chloroplasts. Transmembrane (reaction I) and inner membrane (reaction II) electric fields. In: *Photosynthesis Vol. I*, (G. Akoyunoglou ed.) Balaban Int. Sci.

Serv. Philadelphia, 1981, 489-499.

Vredenberg, W.J. P515: A monitor of photosynthetic energization in chloroplast membranes. *Physiol. Plant.* 53(4), 1981, 598-602.

Kooten, O. van, F.A.M. Leermakers, R.L.A. Peters, and W.J. Vredenberg. Indications for the chloroplasts as a tri-compartment system: Micro-electrode and P515 measurements imply semi-localized chemiosmosis. In: *Proc. VIth Int. Congr. on Photosynthesis*, (C. Sybesma ed.) 1983, II4, 265-268.

Kooten, v. O., A.G.M. Gloudemans, and W.J. Vredenberg. On the slow component of P515 and the flash-induced reduction of cytochrome b563 in chloroplast membranes. *Photobiochem. Photobiophys.* 6, 1983, 9-14.

Peters, R.L.A., M.E. Bossen, O. van Kooten, and W.J. Vredenberg. On the correlation between the activity of the ATP-hydrolase and the kinetics of the flash-induced P515 electrochromic bandshift in spinach chloroplasts. *J. Bioenerg. Biomembr.* 15, 1983, 337-346.

Peters, R.L.A., O. van Kooten, and W.J. Vredenberg. The kinetics of the flash-induced P515 electrochromic bandshift in dependence of the energetic state of the thylakoid membrane and the ion concentration in the outer aqueous phase. In: *Proc. VIth Int. Congr. on Photosynthesis*, (C. Sybesma ed.) 1983, II4, 269-272.

Vredenberg, W.J., O. van Kooten, and R.L.A. Peters. Electrical events and P515 in thylakoid membranes. In: *Proc. VIth Int. Congr. on Photosynthesis*, (C. Sybesma ed.) 1983, II4, 241-246.

Peters, A.L.J., R.H.M. van der Pal, R.L.A. Peters, W.J. Vredenberg, and R. Kraayenhof. Studies on well-coupled Photosystem I -enriched subchloroplast vesicles. Discrimination of flash-induced fast and slow electric potential components. *Biochim. Biophys. Acta* 766, 1984, 169-178.

Peters, R.L.A., O. van Kooten, and W.J. Vredenberg. The effect of uncouplers (F)CCCP and NH₄Cl on the kinetics of the flash-induced P515 electrochromic bandshift in spinach chloroplasts. *FEBS Lett.* 177, 1984, 11-17.

Peters, R.L.A., O. van Kooten, and W.J. Vredenberg. The kinetics of P515 in relation to the lipid composition of the thylakoid membrane. *J. of Bioenergetics*

and Biomembranes 16, 1984, 283-294.

Peters, R.L.A., O. van Kooten, and W.J. Vredenberg. The kinetics of the flash-induced P515 response in relation to the H⁺-permeability of the membrane bound ATPase in spinach chloroplasts. *J. of Bioenergetics and Biomembranes* 17-4, 1985, 207-217.

Kooten, O. van, J.F.H. Snel, and W.J. Vredenberg. Photosynthetic free energy transduction related to electrical potential changes across the thylakoid membrane. *Photosynth. Res.* 9, 1986, 211-227.

Peters, R.L.A., O. van Kooten, and W.J. Vredenberg. Onset of ATP synthesis in spinach chloroplasts after single turnover flashes in relation to adenylate kinase activity. *FEBS Lett.* 202, 1986, 361-366.

Vredenberg, W.J. Fluorescence and absorbance measurements in leaves: sensors of photosynthetic performance. In: *Advanced agric. instrumentation, design and use*, NATO ASI ser., (W.G. Gensler, ed.) Martinus Nijhoff Publ. Dordrecht, 1986, 107-132.

Buurmeijer, W.F., Th.A. Roelofs, and W.J. Vredenberg. Some aspects of altered structure and functioning of the photosynthetic apparatus in phytochrome-less mutants of tomato. In: *Progress in Photosynth. Res.*, II, (J. Biggins ed.) Martinus Nijhoff Publ., Dordrecht, 1987, 383-386.

Hove, L.W.A. van, A.J. Koops, E.H. Adema, W.J. Vredenberg, and G.A. Pieters. Analysis of the uptake of atmospheric ammonia by leaves of *Phaseolus vulgaris* L. *Atmospheric Environment* 21, 1987, 1759-1763.

Kooten, O. van, J.F.H. Snel, and W.J. Vredenberg. Modelling of photosynthetic energy conversion. III. Electrochemical events at the membrane. In: *Progress in Photosynth. Res.*, II, (J. Biggins ed.) Martinus Nijhoff Publ., Dordrecht, 1987, 621-624.

Snel, J.F.H., O. van Kooten, and W.J. Vredenberg. Modelling of photosynthetic energy conversion. II. Charge separation and secondary electron flow. In: *Progress in Photosynth. Res.*, II, (J. Biggins ed.) Martinus Nijhoff Publ., Dordrecht, 1987, 617-620.

Vredenberg, W.J., O. van Kooten, and J.F.H. Snel. Modelling of photosynthetic

energy conversion. I. Description and basic principles of the model. In: Progress in Photosynth. Res., II, (J. Biggins, ed.) Martinus Nijhoff Publ. Dordrecht, 1987, 613-616.

Bossen, M.E., J.H.A. Dassen, R.E. Kendrick, and W.J. Vredenberg. The role of Ca²⁺ in phytochrome-controlled swelling of etiolated wheat protoplasts. *Planta* 174, 1988, 94-100.

Vredenberg, W.J., J.J.J. Ooms, and W.F. Buurmeijer. Electrogenesis in chloroplast membranes: Evidence for two slow components in the P515 signal after flash excitation. In: The Ion Pumps, Structure, Function and Regulation, (W.D. Stein ed.) Alan R. Liss Inc., Publ. New York, 1988, 293-298.

Hove, L.W.A. van, O. van Kooten, E.H. Adema, W.J. Vredenberg, and G.A. Pieters. Physiological effects of long-term exposure to low and moderate concentrations of atmospheric NH₃ on poplar leaves. *Plant Cell Environ.* 12, 1989, 899-908.

Hove, van L.W.A., W.J.M. Tonk, G.A. Pieters, E.H. Adema, and W.J. Vredenberg. A leaf chamber for measuring the uptake of pollutant gases at low concentrations by leaves, transpiration and carbon dioxide assimilation. *Atmospheric Environment* 22, 1988, 2515-2523.

Hove, van L.W.A., E.H. Adema, W.J. Vredenberg, and G.A. Pieters. A study of the adsorption of NH₃ and SO₂ on leaf surfaces. *Atmospheric Environment* 23(7), 1989, 1479-1486.

Ooms, J.J.J., W.J. Vredenberg, and W.F. Buurmeijer. Evidence for an electrogenic and a non-electrogenic component in the slow phase of the P515 response in chloroplasts. *Photosynth. Res.* 20, 1989, 119-128.

Bossen, M.E., R.E. Kendrick, and W.J. Vredenberg. The involvement of a G-protein in phytochrome-regulated Ca²⁺-dependent swelling of etiolated wheat protoplasts. *Physiol. Plant.* 80, 1990, 55-62.

Buurmeijer, W.F., J.H.A.M. Wonders, and W.J. Vredenberg. State-transitions in photomorphogenetic mutants of tomato. In: Current Research in Photosynthesis, Vol. II, (M. Balltscheffsky, ed.) Kluwer, Dordrecht, Boston, London, 1990, 8.891-894.

Hove, L.W.A. van, W.J. Vredenberg, and E.H. Adema. The effect of wind velocity,

air temperature and humidity on NH₃ and SO₂ transfer into bean leaves (*Phaseolus vulgaris* L.). *Atmospheric Environment* 24A,5, 1990, 1263-1270.

Kooten, O. van, L.W.A. van Hove, and W.J. Vredenberg. The effect of prolonged exposure to air-borne pollutants on the photosynthesis of Douglas fir (*Pseudotsuga menziesii*) studied with in vivo chlorophyll fluorescence. In: *Current Research in Photosynthesis*, Vol. IV, (M. Baltscheffsky ed.) Kluwer, Dordrecht, Boston, London, 1990, 19.611-614.

Ooms, J.J.J. and W.J. Vredenberg. Analysis of the slow component of the flash-induced P515 response in chloroplasts. In: *Techniques and New Developments in Photosynthesis*, (J. Barber and R. Malkin eds.) 1990, 267-270.

Ooms, J.J.J., P.H. van Vliet, and W.J. Vredenberg. The slow P515 signal in relation to the status of innermembrane proton domains. In: *Current Research in Photosynthesis*, Vol. III, (M. Baltscheffsky, ed.) Kluwer, Dordrecht, Boston, London, 1990, 9.213-216.

Snel, J.F.H., W. van Ieperen, and W.J. Vredenberg. Complete suppression of oxygen evolution in open PS II centers by non-photochemical fluorescence quenching. In: *Current Research in Photosynthesis*, Vol. II, (M. Baltscheffsky ed.) Kluwer, Dordrecht, Boston, London, 1990, 8.911-914.

Snel, J.F.H., M. Kooijman, and W.J. Vredenberg. Correlation between chlorophyll fluorescence and photoacoustic signal transients in spinach leaves. *Photosynth. Res.* 25 1990, 259-268.

Tretyn, A., R.E. Kendrick, M.E. Bossen, and W.J. Vredenberg. Influence of acetylcholine agonists and antagonists on the swelling of etiolated wheat (*Triticum aestivum* L.) mesophyll protoplasts. *Planta* 190, 1990, 473-479.

Vredenberg, W.J., W. Versluis, and J.J.J. Ooms. Flash-induced absorbance changes in thylakoid membranes. The gramicidin insensitive component. In: *Current Research in Photosynthesis*, Vol. II, (M. Baltscheffsky ed.) Kluwer, Dordrecht, Boston, London, 1990, 8.883-886.

Bossen, M.E., A. Tretyn, R.E. Kendrick, and W.J. Vredenberg. Comparison between swelling of etiolated wheat (*Triticum aestivum* L.) protoplasts induced by phytochrome and α -naphthaleneacetic acid, benzylaminopurine, gibberellic acid,

abscisic acid and acetylcholine. *J. Plant Physiol.* 137, 1991, 706-710.

Hove, L.W.A. van, O. van Kooten, K.J. van Wijk, W.J. Vredenberg, E.H. Adema, and G.A. Pieters. Physiological effects of long term exposure to low concentrations of SO₂ and NH₃ on poplar leaves. *Physiol. Plant.* 82, 1991, 32-40.

Ooms, J.J.J., W. Versluis, P.H. van Vliet, and W.J. Vredenberg. The flash-induced P515 shift in relation to ATPase activity in chloroplasts. *Biochim. Biophys. Acta* 1056, 1991, 293-300.

Ooms, J.J.J., W. Versluis, and W.J. Vredenberg. Activation of the non-electrochromic component in the 518 nm absorbance change by photosystem I. *Physiol. Plant.* 82, 1991, 569-574.

Vredenberg, W.J., J.F.H. Snel, and J.J.J. Ooms. Photosynthetic membrane energization and energy storage. Studies with electrochromic, fluorescence and photoacoustic spectroscopy. In: *Light in Biology and Medicine*, Vol. 2, (R.H. Douglas, J. Moan, and G. Rontó, eds.) Plenum Press, London, 1991, 101-110.

Snel, J.F.H., H. Boumans, and W.J. Vredenberg. Formation of inactive PS2 centers in spinach leaves during light adaptation. In: *Proc. IXth Int. Congr. on Photosynthesis, Research on Photosynthesis*, vol. IV, (N. Murata, ed.) Kluwer, Dordrecht, The Netherlands, 1992, 615-618.

Snel, J.F.H., M.W. Polm, W.F. Buurmeijer, and W.J. Vredenberg. Deconvolution of photobaric and photothermal signals from spinach leaves. In: *Photoacoustic and Photothermal Phenomena III*, (D. Bicanic, ed.), Springer Series in Optical Sciences, 69, 1992, 65-68.

Vredenberg, W.J., J.F.H. Snel, H.J. Dassen, and T. van Voorthuysen. Electrogenesis and energy regulation in the photosynthetic membrane. In: *Proc. IXth Int. Congr. on Photosynthesis, Research on Photosynthesis*, vol. II, (N. Murata, ed.), Kluwer, Dordrecht, The Netherlands, 1992, 681-684.

Vredenberg, W.J., J.F.H. Snel, W.F. Buurmeijer, and H. Boumans. Application of non-invasive spectroscopic and photoacoustic techniques in research on photosynthetic performance of intact leaves. *Photosynthetica* 27, 1992, 207-215.

Snel, J.F.H., and W.J. Vredenberg. Diagnosis of primary production of plants by spectroscopic analysis of the primary events in photosynthesis. In: *Plant*

production on the threshold of a new century, (P.C. Struik, W.J. Vredenberg, J.A. Renkema, and J.E. Parlevliet eds.), Kluwer Academic Publishers, Dordrecht, 1994, 245-263.

Bulychev, A.A., M. Pilon, H. Dassen, R. van 't Hof, W.J. Vredenberg, and B. de Kruijff. Precursor-mediated opening of translocation pores in chloroplast envelopes. *FEBS Lett.* 356, 1994, 204-206.

Struik, P.C., W.J. Vredenberg, J.A. Renkema, and J.E. Parlevliet, eds. *Plant production on the threshold of a new century*. Kluwers Academic Publishers, Dordrecht, The Netherlands, ISBN 0-7923-2903-1, 1994, 501 pp.

Bulychev, A.A., and W.J. Vredenberg. Enhancement of the light-triggered electrical response in plant cells following their de-energization with uncouplers. *Physiol. Plant.* 94, 1995, 64-70.

Voorthuysen, T. van, H.J. Dassen, J.F.H. Snel, and W.J. Vredenberg. Temporary suppression of the flash-induced electrical potential across the thylakoid membrane upon energization. *Physiol. Plant.* 94, 1995, 729-735.

Vredenberg, W.J., A.A. Bulychev, J.H.A. Dassen, J.F.H. Snel, and T. van Voorthuysen. A patch clamp method for determining single turnover charge separations in the chloroplast membrane. *Biochim. Biophys. Acta* 1230, 1995, 77-80. Van Voorthuysen, T., H.A. Dassen, J.F.H. Snel and W.J. Vredenberg A patch-clamp study on the regulation of electrogenesis by protons In: *Photosynthesis: from Light to Biosphere III* (Paul Mathis, editor) Kluwer Academic Publ., Dordrecht, the Netherlands 1995, 79-82.

Vredenberg, W.J., A.A. Bulychev, T. van Voorthuysen and J.F.H. Snel The electrical properties of the thylakoid membrane and its partitions ('brush borders') in relation to energy supply In: *Photosynthesis: from Light to Biosphere III*, (Paul Mathis, editor) Kluwer Academic Publ., Dordrecht, the Netherlands 1995, 269-272.

Vredenberg, W.J.; Bulychev, A.A.; van Voorthuysen, T.; Snel, J.F.H.; The electrical properties of the thylakoid membrane and its partitions ('brush borders') in relation to energy supply. In: *Photosynthesis: from light to biosphere*, P. Mathis (ed.). Kluwer Acad. Publ., Dordrecht, The Netherlands (1995) 269-272. Bulychev, A.A., van Voorthuysen, T. and Vredenberg, W.J. Transmembrane movements of

artificial redox mediators in relation to electron transport and ionic currents in chloroplasts *Physiol. Plant.* 98, 1996, 605-611.

Voorthuysen, T. van, H.A. Dassen, J.F.H. Snel and W.J. Vredenberg Patch clamp study on flash-induced secondary electrogenic transport in the thylakoid membrane: Interpretation in terms of a Q-cycle/semiquinone cycle *Biochim. Biophys. Acta* 1277, 1996, 226-237.

Voorthuysen, T. van, A.A. Bulychev, J.F.H. Snel and W.J. Vredenberg. Suppression of flash-induced PSII-dependent electrogenesis caused by proton pumping in chloroplasts. *Physiol.Plant.* 98, 1996, 156-164.

Voorthuysen, T. van, A.A. Bulychev, J.H.A. Dassen, J.F.H. Snel and W.J. Vredenberg. Flash-induced conductance changes in chloroplast thylakoid lamellae. A patch-clamp study. *Bioelectrochem. Bioenerg.* 43, 1997, 41-49.

Vredenberg, W.J. Electrogenesis in the photosynthetic membrane: Fields, facts and features. *Bioelectrochem. Bioenerg.* 44, 1997, 1-11.

Wijngaard, P.W.J. van den and W.J. Vredenberg. A 50 pS anion channel of the chloroplast envelope is involved in chloroplast protein import. *J. Biol. Chem.* 272, 1997, 29430-29433.

Bulychev, A.A.; Dassen, J.H.A.; Vredenberg, W.J.; Opanasenko, V.K.; Semenova, G.A.; Stimulation of photocurrent in chloroplasts related to light-induced swelling of thylakoid system. *Bioelectrochemistry and Bioenergetics* 46 (1998) 71-78.

Vredenberg, W.J.; Snel, J.F.H.; Dassen, J.H.A.; A sizeable decrease in the electric conductance of the thylakoid lumen as an early event during reaction center and Q cycle turnover. *PhotosynthesisResearch* 58 (1998) 111-121.

Bulychev, A.A.; Vredenberg, W.J.; Light triggered events in the thylakoid membrane of plant chloroplasts *Physiologia Plantarum* 105 (1999). - p. 577 - 584

Cherkashin, A.A.; Bulychev, A.A.; Vredenberg, W.J.; Outward photocurrent component in chloroplasts of *Peperomia metallica* and its assignment to the 'closed thylakoid' recording configuration *Bioelectrochemistry and Bioenergetics* 48 (1999). - p. 141 - 148

Dabney-Smith, C.; Wijngaard, P.W.J. van den; Treece, Y.; Vredenberg, W.J.; Bruce,

B.D.; The C-terminus of a chloroplast precursor modulates interaction with the translation apparatus and PIRAC Journal of Biological Chemistry 274 (1999). - p. 32351 - 32359

Snel, J.F.H.; Vredenberg, W.J.; The electrochemical properties of the thylakoid membrane In: Concepts in Photobiology : Photosynthesis and Photomorphogenesis / ed. by G.S. Singhal, G. Renger, S.K.Sopory, K.-D. Irrgang and Govindjee. - New Delhi : Narosa Publishing House, 1999. - p. 364 - 385

Wijngaard, P.W.J. van den; Dabney-Smith, C.; Bruce, B.D.; Vredenberg, E.J.; The mechanism of inactivation of a 50 pS envelope anion channel during chloroplast protein import Biophysical Journal 77 (1999). - p. 3156 - 3162

Wijngaard, P.W.J. van den; Vredenberg, W.J.; The envelope anion channel involved in chloroplast protein import is associated with Tic 110 Journal of Biological Chemistry 274 (1999). - p. 25201 - 25204

Bulychev, A.A.; Cherkashin, A.A.; Rubin, A.B.; Vredenberg, W.J.; Fluorescence and functional activity of chloroplasts in acid and alkaline zones of Chara In: European Biophysics Journal 29, no 4-5: 3rd European Biophysics Congress, Munchen 2000. - [S.l.] : [s.n.], 2000. - p. 324

Bulychev, A.A.; Vredenberg, W.J.; Photoactivation of electrogenic activity in chloroplasts and its relation to photoinduced swelling of thylakoids Russian Journal of Plant Physiology 47 (2000) 6. - p.754 - 760

Cherkashin, A.A.; Bulychev, A.A.; Vredenberg, W.J.; Outward component of photoinduced current in chloroplasts of Peperomia metallica Biologicheskie Membrany 17 (2000). - p. 377 - 386

Rodrigues, G.C.; Noort, M.E. van den; Rensen, J.J.S. van; Vredenberg, W.J.; Effects of UV-B radiation on PS II function evaluated by the polyphasic rise in chl a fluorescence In: Annual meeting American Society Plant Physiologists. - [S.l.]:[s.n.], 2000. - p. 91 - 92

Wijngaard, P.W. van den; Demmers, J.A.; Thompson, S.J.; Wienk, H.L.; Kruijff, B.; Vredenberg, W.J.; Further analysis of the involvement of the envelope anion channel PIRAC in chloroplast protein import European Journal of Biochemistry 12 (2000). - p. 3812 - 3817

Vredenberg, W.J.; A three-state model for energy trapping and chlorophyll fluorescence in photosystem II Incorporating radical pair recombination *Biophysical Journal* 79 (2000). - p. 26 - 38

Cherkashin, A.A.; Bulychev, A.A.; Vredenberg, W.J.; The outward component of photoinduced current in chloroplasts of *peperomia metallica* *Membrane Cell Biology* 14 (2001). - p. 475 - 485

Bulychev, A.A.; Cherkashin, A.A.; Rubin, A.B.; Vredenberg, W.J.; Zykov, V.S.; Müller, S.C.; Comparative study on photosynthetic activity of chloroplasts in acid and alkaline zones of *Chara corallina* *Bioelectrochemistry and Bioenergetics* 53 (2001). - ISSN 0302-4598. - p. 225 - 232

Rensen, J.J.S. van; Rodrigues, G.C.; Vredenberg, W.J.; Analysis of electron flow around photosystem II in atrazine-resistant plants applying the three-state energy trapping model on the OJIP fluorescence induction curve In: PS 2001 Proceedings 12th Int. Congress on Photosynthesis. - Australia : CSIRO publishing, 2001. - ISBN 0643067116. - p. S14-007 - 1-4

Rodrigues, G.C.; Vredenberg, W.J.; Rensen, J.J.S. van; Kinetics of UV-B damage to photosystem II: a fluorescence induction analysis In: PS 2001 Proceedings 12th Int. Congress on Photosynthesis. -Australia: CSIRO publishing, 2001. - ISBN 0643067116. - p. S8-016 - 1-5

Vredenberg, W.J.; Rodrigues, G.C.; Rensen, J.J.S. van; A quantitative analysis of the chlorophyll fluorescence induction in terms of electron transfer rates at donor and acceptor sides of photosystem II In: PS 2001 Proceedings 12th Int. Congress on Photosynthesis. - Australia : CSIRO publishing, 2001. - ISBN 0643067116. - p. S14-10 - 1-4

Bulychev, A.A.; Vredenberg, W.J.; Modulation of photosystem II chlorophyll fluorescence by electrogenic events generated by photosystem I *Bioelectrochemistry* 54 (2001). - p. 157 - 168

Vredenberg WJ; Bulychev AA Photo-electrochemical control of photosystem II chlorophyll fluorescence *in vivo*. *Bioelectrochemistry* 57 (2002): 123-128

Vredenberg WJ; Om niet licht te vergeten. Farewell lecture Wageningen University (in dutch) 2002

Vredenberg WJ and Bulychev AA; Photo-electric effects on chlorophyll fluorescence of photosystem II in vivo. Kinetics in absence and presence of valinomycin. *Bioelectrochemistry* 60 (2003).- p. 87-95.

Masaki Hiraki, Jack J.S. van Rensen, Wim J. Vredenberg¹ & Ko Wakabayashi; Characterization of the alterations of the chlorophyll a fluorescence induction curve after addition of Photosystem II inhibiting herbicides. *Photosynthesis Res.* 78 (2003). - p. 35-46.

Bulychev AA and Vredenberg WJ; Spatio-temporal patterns of photosystem II activity and plasma-membrane proton flows in *Chara corallina* cells exposed to overall and local illumination. *Planta* 218 (2003). - p.143-151.

Wim Vredenberg, Ondrej Prasil and Milan Durchan On the chlorophyll a fluorescence yield in chloroplasts upon excitation with twin turnover flashes (TTF) and high frequency flash trains. *Photosynth Res* (2007) 93:183-192. DOI 10.1007/s11120-007-9150-8

Jack J. S. van Rensen, Wim J. Vredenberg and Gustavo C. Rodrigues Time sequence of the damage to the acceptor and donor sides of photosystem II by UV-B radiation as evaluated by chlorophyll a fluorescence. *Photosynth Res* (2007) 94:291-297. DOI 10.1007/s11120-007-9177-x

Garstka, M., Venema, J-H., Rumak, I., Gieczewska K., Rosiak M., Koziol-Lipinska J., Kierdaszuk B., Vredenberg, W. J., Mostowska A. Contrasting effect of dark-chilling on chloroplast structure and arrangement of chlorophyll-protein complexes in pea and tomato: plants with a different susceptibility to non-freezing temperature. *Planta* (2007) 226:1165-1181. DOI 10.1007/s00425-007-0562-7

Vredenberg, W.J. Analysis of initial chlorophyll fluorescence induction kinetics in chloroplasts in terms of rate constants of donor side quenching release and electron trapping in photosystem II *Photosynth Res* (2008) in press DOI 10.1007/s11120-007-9287-5

Vredenberg, W.J. Algorithm for analysis of OJDIP fluorescence induction curves in terms of photo- and electrochemical events in photosystems of plant cells. Derivation and application. *J Photochem Photobiol B: Biology* (2008) in press DOI (nr wordt binnen week bekend)

Vredenberg, W.J and Prasil, O. Modeling of chlorophyll a fluorescence kinetics in relation to photo- and electrochemical events in photosystems of plant cells. Derivation of a descriptive algorithm in: Agu Lausk, Ladislav Nedbal and Govindjee (eds) Photosynthesis in silico Understanding complexity from molecules to ecosystems. Springer, Dordrecht, the Netherlands [<http://book.e-photosynthesis.org>] (2007) submitted

Vredenberg, W.J., van Rensen, J.J.S. and Rodrigues, G.C. Effect of pre-flashes on chlorophyll fluorescence induction kinetics of chloroplasts in absence and presence of DCMU. A new look at photosystem II heterogeneity. under revision

Vredenberg, W.J., van Rensen, J.J.S. and Rodrigues, G.C. Effect of pre-flashes on chlorophyll fluorescence induction kinetics of chloroplasts in absence and presence of dcmu. A new look at photosystem II heterogeneity. under revision

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Links

<http://www.e-photosynthesis.org/>

<http://www.greentech.cz/index.php?language=en>

<http://www.alga.cz>

<http://www.wur.nl/uk/zoek.htm?ct=publication&m=u>

<http://www.biophysj.org/cgi/reprint/79/1/26>