

Ondrej Prasil

List of Publications by Year in descending order

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112
papers

5,350
citations

87888

38
h-index

91884

69
g-index

120
all docs

120
docs citations

120
times ranked

4915
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow cytometry-based study of model marine microalgal consortia revealed an ecological advantage of siderophore utilization by the dinoflagellate <i>Amphidinium carterae</i> . <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 287-295.	4.1	1
2	<i>Crocospaera watsonii</i> . <i>Trends in Microbiology</i> , 2022, 30, 805-806.	7.7	2
3	Diffusional Interactions among Marine Phytoplankton and Bacterioplankton: Modelling H ₂ O ₂ as a Case Study. <i>Microorganisms</i> , 2022, 10, 821.	3.6	4
4	<i>Crocospaera</i> as a Major Consumer of Fixed Nitrogen. <i>Microbiology Spectrum</i> , 2022, 10, .	3.0	3
5	Impact of Increased Nutrients and Lowered pH on Photosynthesis and Growth of Three Marine Phytoplankton Communities From the Coastal South West Atlantic (Patagonia, Argentina). <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	8
6	Complex Response of the Chlorarachniophyte <i>Bigelowiella natans</i> to Iron Availability. <i>MSystems</i> , 2021, 6, .	3.8	5
7	Temporal Patterns and Intra- and Inter-Cellular Variability in Carbon and Nitrogen Assimilation by the Unicellular Cyanobacterium <i>Cyanothece</i> sp. ATCC 51142. <i>Frontiers in Microbiology</i> , 2021, 12, 620915.	3.5	9
8	Photomorphogenesis in the Picyanobacterium <i>Cyanobium gracile</i> Includes Increased Phycobilisome Abundance Under Blue Light, Phycobilisome Decoupling Under Near Far-Red Light, and Wavelength-Specific Photoprotective Strategies. <i>Frontiers in Plant Science</i> , 2021, 12, 612302.	3.6	3
9	Electron & Biomass Dynamics of <i>Cyanothece</i> Under Interacting Nitrogen & Carbon Limitations. <i>Frontiers in Microbiology</i> , 2021, 12, 617802.	3.5	4
10	Physiological and spectroscopical changes of the thermophilic cyanobacterium <i>Synechococcus elongatus</i> under iron stress and recovery culture. <i>Acta Physiologiae Plantarum</i> , 2021, 43, 1.	2.1	2
11	Single-Turnover Variable Chlorophyll Fluorescence as a Tool for Assessing Phytoplankton Photosynthesis and Primary Productivity: Opportunities, Caveats and Recommendations. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	27
12	Does growth rate affect diatom compositional response to temperature?. <i>Phycologia</i> , 2021, 60, 462-472.	1.4	1
13	Quantifying <i>Cyanothece</i> growth under DIC limitation. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 6456-6464.	4.1	2
14	Community dynamics and function of algae and bacteria during winter in central European great lakes. <i>Journal of Great Lakes Research</i> , 2020, 46, 732-740.	1.9	21
15	Quantitative models of nitrogen-fixing organisms. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 3905-3924.	4.1	16
16	Carbon Transfer from the Host Diatom Enables Fast Growth and High Rate of N ₂ Fixation by Symbiotic Heterocystous Cyanobacteria. <i>Plants</i> , 2020, 9, 192.	3.5	18
17	Heterogeneous nitrogen fixation rates confer energetic advantage and expanded ecological niche of unicellular diazotroph populations. <i>Communications Biology</i> , 2020, 3, 172.	4.4	10
18	Light Harvesting by Long-Wavelength Chlorophyll Forms (Red Forms) in Algae: Focus on their Presence, Distribution and Function. <i>Advances in Photosynthesis and Respiration</i> , 2020, , 261-297.	1.0	6

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19	The effect of light quality and quantity on carbon allocation in <i>Chromera velia</i> . <i>Folia Microbiologica</i> , 2019, 64, 655-662.	2.3	3
20	Special issue dedicated to the memory of Ivan ÅetlÅk. <i>Folia Microbiologica</i> , 2019, 64, 601-602.	2.3	0
21	Red-shifted light-harvesting system of freshwater eukaryotic alga <i>Trachydiscus minutus</i> (Eustigmatophyta, Stramenopila). <i>Photosynthesis Research</i> , 2019, 142, 137-151.	2.9	8
22	Copper and iron metabolism in <i>Ostreococcus tauri</i> – the role of phytoferritin, plastocyanin and a chloroplast copper-transporting ATPase. <i>Metallomics</i> , 2019, 11, 1657-1666.	2.4	16
23	Spectroscopic Properties of Violaxanthin and Lutein Triplet States in LHCII are Independent of Carotenoid Composition. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9312-9320.	2.6	13
24	Quantifying Oxygen Management and Temperature and Light Dependencies of Nitrogen Fixation by <i>Crocospaera watsonii</i> . <i>MSphere</i> , 2019, 4, .	2.9	26
25	The phycobilisomes of <i>Synechococcus</i> sp. are constructed to minimize nitrogen use in nitrogen-limited cells and to maximize energy capture in energy-limited cells. <i>Environmental and Experimental Botany</i> , 2018, 150, 152-160.	4.2	13
26	Control of the maximal chlorophyll fluorescence yield by the Q_B binding site. <i>Photosynthetica</i> , 2018, 56, 150-162.	1.7	26
27	Fast reactivation of photosynthesis in arctic phytoplankton during the polar night¹. <i>Journal of Phycology</i> , 2018, 54, 461-470.	2.3	43
28	High light acclimation of <i>Chromera velia</i> points to photoprotective NPQ. <i>Photosynthesis Research</i> , 2018, 135, 263-274.	2.9	19
29	Diel regulation of photosynthetic activity in the oceanic unicellular diazotrophic cyanobacterium <i>Crocospaera watsonii</i> WH8501. <i>Environmental Microbiology</i> , 2018, 20, 546-560.	3.8	25
30	Life at elevated CO₂ modifies the cell composition of <i>Chromera velia</i> (Chromerida). <i>European Journal of Phycology</i> , 2018, 53, 58-66.	2.0	3
31	On the origin of the slow Mâ€™T chlorophyll a fluorescence decline in cyanobacteria: interplay of short-term light-responses. <i>Photosynthesis Research</i> , 2018, 136, 183-198.	2.9	14
32	Roadmaps and Detours: Active Chlorophyll- <i>a</i> Assessments of Primary Productivity Across Marine and Freshwater Systems. <i>Environmental Science & Technology</i> , 2018, 52, 12039-12054.	10.0	49
33	Comparison of photosynthetic performances of marine picocyanobacteria with different configurations of the oxygen-evolving complex. <i>Photosynthesis Research</i> , 2018, 138, 57-71.	2.9	4
34	Community composition and photophysiology of phytoplankton assemblages in coastal Oyashio waters of the western North Pacific during early spring. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 212, 80-94.	2.1	20
35	The effect of environmental factors on fatty acid composition of <i>Chromera velia</i> (Chromeridae). <i>Journal of Applied Phycology</i> , 2017, 29, 1791-1799.	2.8	7
36	Effect of CO₂ enrichment on phytoplankton photosynthesis in the North Atlantic sub-tropical gyre. <i>Progress in Oceanography</i> , 2017, 158, 76-89.	3.2	7

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37	Carbon use efficiencies and allocation strategies in <i>Prochlorococcus marinus</i> strain PCC 9511 during nitrogen-limited growth. <i>Photosynthesis Research</i> , 2017, 134, 71-82.	2.9	18
38	High photochemical trapping efficiency in Photosystem I from the red clade algae <i>Chromera velia</i> and <i>Phaeodactylum tricornutum</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 56-63.	1.0	8
39	Presence of state transitions in the cryptophyte alga <i>Guillardia theta</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 6461-6470.	4.8	21
40	Toward autonomous measurements of photosynthetic electron transport rates: An evaluation of active fluorescence-based measurements of photochemistry. <i>Limnology and Oceanography: Methods</i> , 2015, 13, 138-155.	2.0	51
41	Freshwater ice as habitat: partitioning of phytoplankton and bacteria between ice and water in central European reservoirs. <i>Environmental Microbiology Reports</i> , 2015, 7, 887-898.	2.4	10
42	Novel type of red-shifted chlorophyll a antenna complex from <i>Chromera velia</i> : II. Biochemistry and spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 802-810.	1.0	37
43	Novel type of red-shifted chlorophyll a antenna complex from <i>Chromera velia</i> . I. Physiological relevance and functional connection to photosystems. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 734-743.	1.0	46
44	An integrated study of photochemical function and expression of a key photochemical gene (<i>psbA</i>) in photosynthetic communities of Lake Bonney (McMurdo Dry Valleys, Antarctica). <i>FEMS Microbiology Ecology</i> , 2014, 89, 293-302.	2.7	21
45	Govindjee, an institution, at his 80th (really 81st) birthday in Å™eboÅ™ in October, 2013: a pictorial essay. <i>Photosynthesis Research</i> , 2014, 122, 113-119.	2.9	5
46	Phycobilisome Mobility and Its Role in the Regulation of Light Harvesting in Red Algae. <i>Plant Physiology</i> , 2014, 165, 1618-1631.	4.8	49
47	Mechanisms Modulating Energy Arriving at Reaction Centers in Cyanobacteria. <i>Advances in Photosynthesis and Respiration</i> , 2014, , 471-501.	1.0	40
48	Effect of CO ₂ , nutrients and light on coastal plankton. I. Abiotic conditions and biological responses. <i>Aquatic Biology</i> , 2014, 22, 25-41.	1.4	27
49	Effect of CO ₂ , nutrients and light on coastal plankton. II. Metabolic rates. <i>Aquatic Biology</i> , 2014, 22, 43-57.	1.4	20
50	On the polyphasic quenching kinetics of chlorophyll a fluorescence in algae after light pulses of variable length. <i>Photosynthesis Research</i> , 2013, 117, 321-337.	2.9	8
51	Split Photosystem Protein, Linear-Mapping Topology, and Growth of Structural Complexity in the Plastid Genome of <i>Chromera velia</i> . <i>Molecular Biology and Evolution</i> , 2013, 30, 2447-2462.	8.9	59
52	Regulation of photosynthesis during heterocyst differentiation in <i>Anabaena</i> sp. strain PCC 7120 investigated in vivo at single-cell level by chlorophyll fluorescence kinetic microscopy. <i>Photosynthesis Research</i> , 2013, 116, 79-91.	2.9	15
53	Predicting the Electron Requirement for Carbon Fixation in Seas and Oceans. <i>PLoS ONE</i> , 2013, 8, e58137.	2.5	91
54	Presence of Flexible Non-Photochemical Quenching in Cryptophytes (<i>Rhodomonas Salina</i>). <i>Advanced Topics in Science and Technology in China</i> , 2013, , 489-492.	0.1	1

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55	Light-induced dissociation of antenna complexes in the symbionts of scleractinian corals correlates with sensitivity to coral bleaching. <i>Coral Reefs</i> , 2012, 31, 963-975.	2.2	54
56	The slow S to M fluorescence rise in cyanobacteria is due to a state 2 to state 1 transition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1237-1247.	1.0	92
57	The analysis of PS II photochemical activity using single and multi-turnover excitations. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 107, 45-54.	3.8	12
58	Morphology, Ultrastructure and Life Cycle of <i>Vitrella brassicaformis</i> n. sp., n. gen., a Novel Chromerid from the Great Barrier Reef. <i>Protist</i> , 2012, 163, 306-323.	1.5	148
59	Non-Photochemical Quenching in Cryptophyte Alga <i>Rhodomonas salina</i> Is Located in Chlorophyll a/c Antennae. <i>PLoS ONE</i> , 2012, 7, e29700.	2.5	60
60	Photosynthesis in <i>Chromera velia</i> Represents a Simple System with High Efficiency. <i>PLoS ONE</i> , 2012, 7, e47036.	2.5	51
61	Non-photochemical fluorescence quenching in <i>Chromera velia</i> is enabled by fast violaxanthin de-epoxidation. <i>FEBS Letters</i> , 2011, 585, 1941-1945.	2.8	57
62	The development of microalgal biotechnology in the Czech Republic. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010, 37, 1307-1317.	3.0	46
63	Combined Effects of CO ₂ and Light on the N ₂ -Fixing Cyanobacterium <i>Trichodesmium</i> IMS101: A Mechanistic View. <i>Plant Physiology</i> , 2010, 154, 346-356.	4.8	50
64	Combined Effects of CO ₂ and Light on the N ₂ -Fixing Cyanobacterium <i>Trichodesmium</i> IMS101: Physiological Responses. <i>Plant Physiology</i> , 2010, 154, 334-345.	4.8	131
65	Chlorophyll a Fluorescence in Aquatic Sciences: Methods and Applications. , 2010, , .		92
66	Microscopic Measurements of the Chlorophyll a Fluorescence Kinetics. , 2010, , 91-101.		5
67	Spectral characteristic of fluorescence induction in a model cyanobacterium, <i>Synechococcus</i> sp. (PCC 7942). <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 1170-1178.	1.0	63
68	Photochemical and photoelectrochemical quenching of chlorophyll fluorescence in photosystem II. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 1468-1478.	1.0	30
69	Immobility of phycobilins in the thylakoid lumen of a cryptophyte suggests that protein diffusion in the lumen is very restricted. <i>FEBS Letters</i> , 2009, 583, 670-674.	2.8	36
70	Composition changes of phototrophic microbial communities along the salinity gradient in the solar saltern evaporation ponds of Eilat, Israel. <i>Hydrobiologia</i> , 2009, 636, 77-88.	2.0	16
71	Ivan ÅetlÅk. <i>Photosynthetica</i> , 2009, 47, .	1.7	1
72	Modeling of Chlorophyll a Fluorescence Kinetics in Plant Cells: Derivation of a Descriptive Algorithm. <i>Advances in Photosynthesis and Respiration</i> , 2009, , 125-149.	1.0	15

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73	Emission spectroscopy and kinetic fluorometry studies of phototrophic microbial communities along a salinity gradient in solar saltern evaporation ponds of Eilat, Israel. <i>Aquatic Microbial Ecology</i> , 2009, 56, 285-296.	1.8	25
74	Nitrogen and phosphorus limitation of oceanic microbial growth during spring in the Gulf of Aqaba. <i>Aquatic Microbial Ecology</i> , 2009, 56, 227-239.	1.8	33
75	Iron limitation in the marine cyanobacterium <i>Trichodesmium</i> reveals new insights into regulation of photosynthesis and nitrogen fixation. <i>New Phytologist</i> , 2008, 179, 784-798.	7.3	79
76	Acceleration of plastoquinone pool reduction by alternative pathways precedes a decrease in photosynthetic CO ₂ assimilation in preheated barley leaves. <i>Physiologia Plantarum</i> , 2008, 133, 794-806.	5.2	9
77	The Cyanobacterial Homologue of HCF136/YCF48 Is a Component of an Early Photosystem II Assembly Complex and Is Important for Both the Efficient Assembly and Repair of Photosystem II in <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biological Chemistry</i> , 2008, 283, 22390-22399.	3.4	131
78	Nutrient limitation of primary productivity in the Southeast Pacific (BIOSOPE cruise). <i>Biogeosciences</i> , 2008, 5, 215-225.	3.3	118
79	The Exposed N-Terminal Tail of the D1 Subunit Is Required for Rapid D1 Degradation during Photosystem II Repair in <i>Synechocystis</i> sp PCC 6803. <i>Plant Cell</i> , 2007, 19, 2839-2854.	6.6	77
80	Rapid growth rates of aerobic anoxygenic phototrophs in the ocean. <i>Environmental Microbiology</i> , 2007, 9, 2401-2406.	3.8	91
81	Elevated CO ₂ enhances nitrogen fixation and growth in the marine cyanobacterium <i>Trichodesmium</i> . <i>Global Change Biology</i> , 2007, 13, 531-538.	9.5	240
82	On the chlorophyll a fluorescence yield in chloroplasts upon excitation with twin turnover flashes (TTF) and high frequency flash trains. <i>Photosynthesis Research</i> , 2007, 93, 183-192.	2.9	23
83	The chlorophyll a fluorescence induction pattern in chloroplasts upon repetitive single turnover excitations: Accumulation and function of QB-nonreducing centers. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 173-181.	1.0	33
84	Diel variations in the photosynthetic parameters of <i>Prochlorococcus</i> strain PCC 9511: Combined effects of light and cell cycle. <i>Limnology and Oceanography</i> , 2005, 50, 850-863.	3.1	67
85	The photosynthesis of individual algal cells during the cell cycle of <i>Scenedesmus quadricauda</i> studied by chlorophyll fluorescence kinetic microscopy. <i>Photosynthesis Research</i> , 2005, 84, 113-120.	2.9	15
86	Toward a taxon-specific parameterization of bio-optical models of primary production: A case study in the North Atlantic. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	78
87	Antenna ring around trimeric Photosystem I in chlorophyll b containing cyanobacterium <i>Prochlorothrix hollandica</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1708, 1-5.	1.0	27
88	Effect of herbicide clomazone on photosynthetic processes in primary barley (<i>Hordeum vulgare</i> L.) leaves. <i>Pesticide Biochemistry and Physiology</i> , 2004, 78, 161-170.	3.6	36
89	Photoacclimation of <i>Dunaliella tertiolecta</i> (Chlorophyceae) Under Fluctuating Irradiance. <i>Photosynthetica</i> , 2004, 42, 273-281.	1.7	38
90	IN SEARCH OF A PHYSIOLOGICAL BASIS FOR COVARIATIONS IN LIGHT-LIMITED AND LIGHT-SATURATED PHOTOSYNTHESIS ¹ . <i>Journal of Phycology</i> , 2004, 40, 4-25.	2.3	212

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91	Synechocystis 6803 mutants expressing distinct forms of the Photosystem II D1 protein from Synechococcus 7942: relationship between the psbA coding region and sensitivity to visible and UV-B radiation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1605, 55-66.	1.0	53
92	HEAVY METAL-INDUCED INHIBITION OF PHOTOSYNTHESIS: TARGETS OF <i>IN VIVO</i> HEAVY METAL CHLOROPHYLL FORMATION. <i>Journal of Phycology</i> , 2002, 38, 429-441.	2.3	250
93	NITROGEN STRESS RESPONSE OF PROCHLOROCOCCUS STRAIN PCC 9511 (OXYPHOTOBACTERIA) INVOLVES CONTRASTING REGULATION OF <i>ncA</i> AND <i>ncD</i> . <i>Journal of Phycology</i> , 2002, 38, 1113-1124.	2.3	37
94	Experimental and theoretical studies on the excess capacity of Photosystem II. <i>Photosynthesis Research</i> , 2002, 72, 271-284.	2.9	39
95	HEAVY METAL-INDUCED INHIBITION OF PHOTOSYNTHESIS: TARGETS OF <i>IN VIVO</i> HEAVY METAL CHLOROPHYLL FORMATION. <i>Journal of Phycology</i> , 2002, 38, 429-441.	2.3	176
96	Nitrogen deprivation strongly affects Photosystem II but not phycoerythrin level in the divinyl-chlorophyll b-containing cyanobacterium <i>Prochlorococcus marinus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1503, 341-349.	1.0	37
97	Characterization of processes responsible for the distinct effect of herbicides DCMU and BNT on Photosystem II photoinactivation in cells of the cyanobacterium <i>Synechococcus</i> sp. PCC 7942. <i>Photosynthesis Research</i> , 2000, 63, 135-144.	2.9	13
98	Integrity and Activity of Photosystem 2 Complexes Isolated from the Thermophilic Cyanobacterium <i>Synechococcus Elongatus</i> Using Various Detergents. <i>Photosynthetica</i> , 1999, 37, 183-200.	1.7	15
99	Photochemical and Thermal Phases of Chlorophyll a Fluorescence. <i>Photosynthetica</i> , 1999, 37, 163-182.	1.7	99
100	Seasonal changes of photosynthetic assimilation of Norway spruce under the impact of enhanced UV-B radiation. <i>Plant Science</i> , 1999, 142, 37-45.	3.6	26
101	Title is missing!. <i>Photosynthesis Research</i> , 1998, 58, 259-268.	2.9	176
102	Measurements of variable chlorophyll fluorescence using fast repetition rate techniques: defining methodology and experimental protocols. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1998, 1367, 88-106.	1.0	759
103	Biophysical, Biochemical, and Physiological Characterization of <i>Chlamydomonas reinhardtii</i> Mutants with Amino Acid Substitutions at the Ala251 Residue in the D1 Protein That Result in Varying Levels of Photosynthetic Competence. <i>Journal of Biological Chemistry</i> , 1998, 273, 11082-11091.	3.4	29
104	[15] Assessing the potential for chloroplast redox regulation of nuclear gene expression. <i>Methods in Enzymology</i> , 1998, 297, 220-234.	1.0	6
105	PHOTOSYNTHETIC CHARACTERIZATION OF A MUTANT OF NANNOCHLOROPSIS DEFICIENT IN THE SYNTHESIS OF EICOSAPENTAENOIC ACID. <i>Israel Journal of Plant Sciences</i> , 1998, 46, 101-108.	0.5	7
106	Cyclic electron flow around Photosystem II in vivo. <i>Photosynthesis Research</i> , 1996, 48, 395-410.	2.9	150
107	Hole-Burning Study of Energy Transfer in Antenna Proteins of <i>Dunaliella Tertiolecta</i> Affected by Iron-Limitation. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 291, 111-117.	0.3	0
108	Inhibition of PS II photochemistry by PAR and UV radiation in natural phytoplankton communities. <i>Photosynthesis Research</i> , 1994, 42, 51-64.	2.9	62

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109	Dynamics of photosystem II: mechanism of photoinhibition and recovery processes. , 1992, , 295-348.		90
110	Structure and function of photosynthetic systems studied by hole burning spectroscopy. Journal of Luminescence, 1991, 48-49, 295-298.	3.1	9
111	Three types of Photosystem II photoinactivation. Photosynthesis Research, 1990, 24, 89-97.	2.9	47
112	Comparing pulse amplitude modulated (PAM) fluorometry with radiocarbon technique for determination of inorganic carbon fixation in <i>Chlorella vulgaris</i> (Trebouxiophyceae, Chlorophyta). European Journal of Phycology, 0, , 1-11.	2.0	1