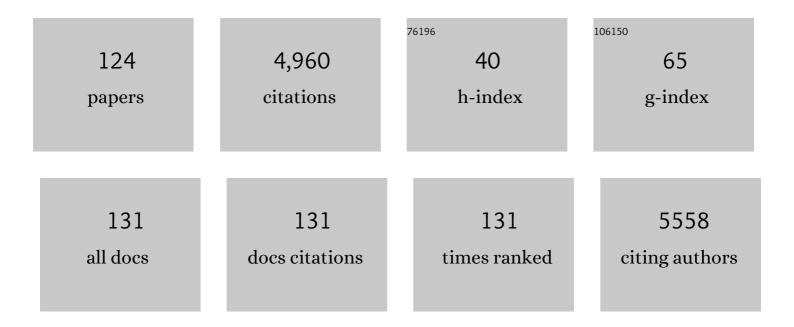
List of Publications by Year in descending order

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RENOîT SCHOFES

#	Article	IF	CITATIONS
1	Photosynthesis under artificial light: the shift in primary and secondary metabolism. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130243.	1.8	327
2	Secondary ketocarotenoid astaxanthin biosynthesis in algae: a multifunctional response to stress. Photosynthesis Research, 2010, 106, 155-177.	1.6	310
3	The Potential of Microalgae for the Production of Bioactive Molecules of Pharmaceutical Interest. Current Pharmaceutical Biotechnology, 2012, 13, 2733-2750.	0.9	201
4	Etioplast and etio-chloroplast formation under natural conditions: the dark side of chlorophyll biosynthesis in angiosperms. Photosynthesis Research, 2010, 105, 143-166.	1.6	165
5	Chlorophyll and carotenoid analysis in food products. Properties of the pigments and methods of analysis. Trends in Food Science and Technology, 2002, 13, 361-371.	7.8	160
6	High performance of vegetables, flowers, and medicinal plants in a red-blue LED incubator for indoor plant production. Agronomy for Sustainable Development, 2014, 34, 879-886.	2.2	149
7	The tannosome is an organelle forming condensed tannins in the chlorophyllous organs of Tracheophyta. Annals of Botany, 2013, 112, 1003-1014.	1.4	128
8	Protochlorophyllide Reduction: Mechanisms and Evolution¶. Photochemistry and Photobiology, 2003, 78, 543.	1.3	111
9	Diatom Milking: A Review and New Approaches. Marine Drugs, 2015, 13, 2629-2665.	2.2	106
10	The Arabidopsis PsbO2 protein regulates dephosphorylation and turnover of the photosystem II reaction centre D1 protein. Plant Journal, 2007, 49, 528-539.	2.8	101
11	Modulation of lipid biosynthesis by stress in diatoms. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160407.	1.8	97
12	Arbuscular mycorrhizal symbiosis elicits shoot proteome changes that are modified during cadmium stress alleviation in Medicago truncatula. BMC Plant Biology, 2011, 11, 75.	1.6	92
13	Astaxanthin accumulation in Haematococcus requires a cytochrome P450 hydroxylase and an active synthesis of fatty acids. FEBS Letters, 2001, 500, 125-128.	1.3	90
14	Plastids of Marine Phytoplankton Produce Bioactive Pigments and Lipids. Marine Drugs, 2013, 11, 3425-3471.	2.2	86
15	Enhanced Secondary- and Hormone Metabolism in Leaves of Arbuscular Mycorrhizal <i>Medicago truncatula</i> . Plant Physiology, 2017, 175, 392-411.	2.3	81
16	Life with and without AtTIP1;1, an Arabidopsis aquaporin preferentially localized in the apposing tonoplasts of adjacent vacuoles. Plant Molecular Biology, 2009, 70, 193-209.	2.0	79
17	Reticulon-like proteins inArabidopsis thaliana: Structural organization and ER localization. FEBS Letters, 2007, 581, 3356-3362.	1.3	75
18	Identification, Expression, and Functional Analyses of a Thylakoid ATP/ADP Carrier from Arabidopsis. Journal of Biological Chemistry, 2007, 282, 8848-8859.	1.6	72

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19	Optimization of protein electroextraction from microalgae by a flow process. Bioelectrochemistry, 2015, 103, 74-81.	2.4	70
20	Determination of pigments in vegetables. Journal of Chromatography A, 2004, 1054, 217-226.	1.8	66
21	Cadmium, Copper, Sodium and Zinc Effects on Diatoms: from Heaven to Hell — a Review. Cryptogamie, Algologie, 2013, 34, 185-225.	0.3	63
22	Carotenoids of Microalgae Used in Food Industry and Medicine. Mini-Reviews in Medicinal Chemistry, 2017, 17, 1140-1172.	1.1	62
23	Ion and metabolite transport in the chloroplast of algae: lessons from land plants. Cellular and Molecular Life Sciences, 2018, 75, 2153-2176.	2.4	61
24	Photoreduction of Protochlorophyllide to Chlorophyllide in 2-d-old Dark-Grown Bean (Phaseolus) Tj ETQq0 0 0 rgf Experimental Botany, 1993, 44, 1053-1057.	3T /Overlo 2.4	ck 10 Tf 50 5 57
25	The protochlorophyllide-chlorophyllide cycle. Photosynthesis Research, 2001, 70, 257-271.	1.6	57
26	Cadmium inhibits epoxidation of diatoxanthin to diadinoxanthin in the xanthophyll cycle of the marine diatom Phaeodactylum tricornutum. FEBS Letters, 2001, 508, 153-156.	1.3	56
27	Isolation and characterization of photoactive complexes of NADPH:protochlorophyllide oxidoreductase from wheat. Planta, 1998, 206, 673-680.	1.6	55
28	Zinc Affects Differently Growth, Photosynthesis, Antioxidant Enzyme Activities and Phytochelatin Synthase Expression of Four Marine Diatoms. Scientific World Journal, The, 2012, 2012, 1-15.	0.8	54
29	Fatty acids profile and temperature in the cultured marine diatom Odontella aurita. Journal of Applied Phycology, 2014, 26, 2265-2271.	1.5	54
30	Response of CO ₂ -starved diatom <i>Phaeodactylum tricornutum</i> to light intensity transition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160396.	1.8	53
31	Transcription factors in microalgae: genome-wide prediction and comparative analysis. BMC Genomics, 2016, 17, 282.	1.2	52
32	Calcium signatures and signaling in cytosol and organelles of tobacco cells induced by plant defense elicitors. Cell Calcium, 2012, 51, 434-444.	1.1	51
33	Function and evolution of channels and transporters in photosynthetic membranes. Cellular and Molecular Life Sciences, 2014, 71, 979-998.	2.4	51
34	Spectroscopic Properties of Protochlorophyllide Analyzed In Situ in the Course of Etiolation and in Illuminated Leaves¶. Photochemistry and Photobiology, 2000, 72, 85.	1.3	45
35	Proteomic analysis of <i>Medicago truncatula</i> root plastids. Proteomics, 2010, 10, 2123-2137.	1.3	44
36	Impact of light on microalgal photosynthetic microbial fuel cells and removal of pollutants by nanoadsorbent biopolymers: Updates, challenges and innovations. Chemosphere, 2022, 288, 132589.	4.2	44

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37	Role of Thylakoid ATP/ADP Carrier in Photoinhibition and Photoprotection of Photosystem II in Arabidopsis Â. Plant Physiology, 2010, 153, 666-677.	2.3	42
38	The Light-Dependent and Light-Independent Reduction of Protochlorophyllide a to Chlorophyllide a. Photosynthetica, 1999, 36, 481-496.	0.9	41
39	Relaxation of the non-photochemical chlorophyll fluorescence quenching in diatoms: kinetics, components and mechanisms. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130241.	1.8	41
40	Metabolic engineering of TiO ₂ nanoparticles in Nitzschia palea to form diatom nanotubes: an ingredient for solar cells to produce electricity and biofuel. RSC Advances, 2016, 6, 97276-97284.	1.7	41
41	Betaine lipid and neutral lipid production under nitrogen or phosphorus limitation in the marine microalga Tisochrysis lutea (Haptophyta). Algal Research, 2019, 40, 101506.	2.4	40
42	Separation of photosynthetic pigments and their precursors by reversed-phase high-performance liquid chromatography using a photodiode-array detector. Journal of Chromatography A, 1995, 692, 239-245.	1.8	39
43	Functions of reticulons in plants: What we can learn from animals and yeasts. Cellular and Molecular Life Sciences, 2009, 66, 584-595.	2.4	39
44	Diatom microalgae as smart nanocontainers for biosensing wastewater pollutants: recent trends and innovations. Bioengineered, 2021, 12, 9531-9549.	1.4	38
45	Food colour additives of natural origin. , 2015, , 3-34.		36
46	Chlorophyll and carotenoid analysis in food products. A practical case-by-case view. TrAC - Trends in Analytical Chemistry, 2003, 22, 335-339.	5.8	35
47	Insights into diatom microalgal farming for treatment of wastewater and pretreatment of algal cells by ultrasonication for value creation. Environmental Research, 2021, 201, 111550.	3.7	35
48	Protochlorophyllide reduction - what is new in 2005?. Photosynthetica, 2005, 43, 329-343.	0.9	34
49	Solute transporters in plant thylakoid membranes. Communicative and Integrative Biology, 2010, 3, 122-129.	0.6	34
50	Assessment of the requirement for aquaporins in the thylakoid membrane of plant chloroplasts to sustain photosynthetic water oxidation. FEBS Letters, 2013, 587, 2083-2089.	1.3	34
51	The photoenzymatic cycle of NADPH: protochlorophyllide oxidoreductase in primary bean leaves (Phaseolus vulgaris) during the first days of photoperiodic growth. Photosynthesis Research, 2008, 96, 15-26.	1.6	33
52	"Light modulates transcriptomic dynamics upregulating astaxanthin accumulation in Haematococcus: A review― Bioresource Technology, 2021, 340, 125707.	4.8	32
53	Comparison of the photoreduction of protochlorophyllide to chlorophyllide in leaves and cotyledons from dark-grown bean as a function of age. Photosynthesis Research, 1994, 41, 405-417.	1.6	31
54	Sustainable treatment of dye wastewater by recycling microalgal and diatom biogenic materials: Biorefinery perspectives. Chemosphere, 2022, 305, 135371.	4.2	31

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#	Article	IF	CITATIONS
55	Metal determination and quantification in biological material using particle-induced X-ray emission. TrAC - Trends in Analytical Chemistry, 2003, 22, 254-262.	5.8	29
56	ENVIRONMENTAL FACTORS AFFECTING GROWTH AND OMEGA 3 FATTY ACID COMPOSITION INSKELETONEMA COSTATUM.THE INFLUENCES OF IRRADIANCE AND CARBON SOURCE. Diatom Research, 2008, 23, 93-103.	0.5	29
57	Title is missing!. Photosynthesis Research, 1998, 57, 203-213.	1.6	28
58	Changing the light environment: chloroplast signalling and response mechanisms. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130220.	1.8	28
59	Mycorrhiza Symbiosis Increases the Surface for Sunlight Capture in Medicago truncatula for Better Photosynthetic Production. PLoS ONE, 2015, 10, e0115314.	1.1	28
60	Application of pulsed electric fields for the biocompatible extraction of proteins from the microalga Haematococcus pluvialis. Bioelectrochemistry, 2021, 137, 107588.	2.4	28
61	Photosystem II Function and Dynamics in Three Widely Used Arabidopsis thaliana Accessions. PLoS ONE, 2012, 7, e46206.	1.1	28
62	Latest trends and developments in microalgae as potential source for biofuels: The case of diatoms. Fuel, 2022, 314, 122738.	3.4	28
63	The formation of chlorophyll from chlorophyllide in leaves containing proplastids is a four-step process. FEBS Letters, 2000, 486, 243-246.	1.3	27
64	Improved liquid chromatographic method for the analysis of photosynthetic pigments of higher plants. Journal of Chromatography A, 2000, 876, 111-116.	1.8	26
65	Plant Pigments: Properties, Analysis, Degradation. Advances in Food and Nutrition Research, 2005, 49, 41-91.	1.5	26
66	High biological variability of plastids, photosynthetic pigments and pigment forms of leaf primordia in buds. Planta, 2012, 235, 1035-1049.	1.6	25
67	Preventive Effects of the Marine Microalga Phaeodactylum tricornutum, Used as a Food Supplement, on Risk Factors Associated with Metabolic Syndrome in Wistar Rats. Nutrients, 2019, 11, 1069.	1.7	25
68	Carbon Orientation in the Diatom Phaeodactylum tricornutum: The Effects of Carbon Limitation and Photon Flux Density. Frontiers in Plant Science, 2019, 10, 471.	1.7	25
69	Title is missing!. Photosynthesis Research, 1999, 62, 107-116.	1.6	24
70	Photoactive Protochlorophyllide Regeneration in Cotyledons and Leaves from Higher Plantsâ€Â¶. Photochemistry and Photobiology, 2000, 72, 660.	1.3	24
71	Changes in the LHCI aggregation state during iron repletion in the unicellular red algaRhodella violacea. FEBS Letters, 2003, 533, 59-62.	1.3	23
72	Fish Oil and Microalga Omegaâ€3 as Dietary Supplements: A Comparative Study on Cardiovascular Risk Factors in Highâ€Fat Fed Rats. Lipids, 2016, 51, 1037-1049.	0.7	23

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73	Photosynthetic Pigments, Photosynthesis and Plastid Ultrastructure in RbcS Antisense DNA Mutants 2001, 56, 1067-1074.	0.6	20
74	Assembly of the photosynthetic apparatus in embryos from Fucus serratus L. Photosynthesis Research, 2003, 77, 45-52.	1.6	20
75	Functional investigations in diatoms need more than a transcriptomic approach. Diatom Research, 2014, 29, 75-89.	0.5	19
76	Identification of transcription factors involved in the phenotype of a domesticated oleaginous microalgae strain of Tisochrysis lutea. Algal Research, 2018, 30, 59-72.	2.4	19
77	Protochlorophyllide Reduction: Mechanisms and Evolution¶. Photochemistry and Photobiology, 2003, 78, 543-557.	1.3	16
78	The peculiar carbon metabolism in diatoms. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160405.	1.8	16
79	Stability of vacuolar betaxanthin pigments in juices from Moroccan yellow <i>Opuntia ficus indica</i> fruits. International Journal of Food Science and Technology, 2008, 43, 351-356.	1.3	15
80	The Marine Microalga, Tisochrysis lutea, Protects against Metabolic Disorders Associated with Metabolic Syndrome and Obesity. Nutrients, 2021, 13, 430.	1.7	15
81	A techno-economic approach for eliminating dye pollutants from industrial effluent employing microalgae through microbial fuel cells: Barriers and perspectives. Environmental Research, 2022, 212, 113454.	3.7	15
82	Graphene oxide decorated TiO2 and BiVO4 nanocatalysts for enhanced visible-light-driven photocatalytic bacterial inactivation. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 418, 113374.	2.0	13
83	Metabolite Quantification by Fourier Transform Infrared Spectroscopy in Diatoms: Proof of Concept on Phaeodactylum tricornutum. Frontiers in Plant Science, 2021, 12, 756421.	1.7	13
84	Hydrogen economy and storage by nanoporous microalgae diatom: Special emphasis on designing photobioreactors. International Journal of Hydrogen Energy, 2022, 47, 42099-42121.	3.8	13
85	Astaxanthin bioaccumulation in microalgae under environmental stress simulated in industrial effluents highlighting prospects of Haematococcus pluvialis: knowledge gaps and prospective approaches. Phytochemistry Reviews, 2023, 22, 1041-1066.	3.1	12
86	The Transition Toward Nitrogen Deprivation in Diatoms Requires Chloroplast Stand-By and Deep Metabolic Reshuffling. Frontiers in Plant Science, 2021, 12, 760516.	1.7	11
87	Communication and Signaling in the Plant–Fungus Symbiosis: The Mycorrhiza. Signaling and Communication in Plants, 2009, , 45-71.	0.5	10
88	Phylogenetic Analysis of the Thylakoid ATP/ADP Carrier Reveals New Insights into Its Function Restricted to Green Plants. Frontiers in Plant Science, 2012, 2, 110.	1.7	10
89	CHAPTER 3. Nanoengineering of Diatom Surfaces for Emerging Applications. RSC Nanoscience and Nanotechnology, 0, , 55-78.	0.2	10
90	Carotenoids and Stress in Higher Plants and Algae. Books in Soils, Plants, and the Environment, 1999, , 465-482.	0.1	10

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#	Article	IF	CITATIONS
91	Nanotechnological approaches to disrupt the rigid cell walled microalgae grown in wastewater for value-added biocompounds: commercial applications, challenges, and breakthrough. Biomass Conversion and Biorefinery, 2023, 13, 13309-13334.	2.9	10
92	Contribution of n-3 Long-Chain Polyunsaturated Fatty Acids to the Prevention of Breast Cancer Risk Factors. International Journal of Environmental Research and Public Health, 2022, 19, 7936.	1.2	10
93	Changes in plastid proteome and structure in arbuscular mycorrhizal roots display a nutrient starvation signature. Physiologia Plantarum, 2017, 159, 13-29.	2.6	9
94	QUANTITATIVE MEASUREMENT OF METAL ION CONCENTRATION OF PROTEINS SEPARATED BY ELECTROPHORESIS. International Journal of PIXE, 1996, 06, 215-225.	0.4	8
95	Quantification by PIXE of metallic sites in proteins separated by electrophoresis. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 932-935.	0.6	8
96	Protective Action of Ostreococcus Tauri and Phaeodactylum Tricornutum Extracts towards Benzo[a]Pyrene-Induced Cytotoxicity in Endothelial Cells. Marine Drugs, 2020, 18, 3.	2.2	8
97	The Potential of the Marine Microalga Diacronema lutheri in the Prevention of Obesity and Metabolic Syndrome in High-Fat-Fed Wistar Rats. Molecules, 2022, 27, 4246.	1.7	8
98	Perovskite-based solar cells fabricated from TiO2 nanoparticles hybridized with biomaterials from mollusc and diatoms. Chemosphere, 2022, 291, 132692.	4.2	7
99	Introduction : From diatom species identification to ecological and biotechnological applications. Botany Letters, 2020, 167, 2-6.	0.7	6
100	Photosynthetic Pigment Metabolism in Plants During Stress. Books in Soils, Plants, and the Environment, 1999, , 527-543.	0.1	6
101	Fabrication of resonating microfluidic chamber for biofuel production in diatoms (Resonating device) Tj ETQq1 1	0.784314	l rgBT /Overl
102	Pulsed Electric Field–Assisted Cell Permeabilization of Microalgae (Haematococcus pluvialis) for Milking of Value-Added Compounds. Bioenergy Research, 2023, 16, 311-324.	2.2	5
103	Plant cell compartments. Botany Letters, 2019, 166, 269-273.	0.7	4
104	Chloroplast Ion and Metabolite Transport in Algae. Advances in Photosynthesis and Respiration, 2020, , 107-139.	1.0	4
105	Pigment composition and location in honey locust (Gleditsia triacanthos) seeds before and after desiccation. Tree Physiology, 2002, 22, 285-290.	1.4	3
106	Progress in diatom research: from taxonomy to physiology. Diatom Research, 2014, 29, 3-4.	0.5	3
107	Advances in diatom biodiversity and ecology. Botany Letters, 2016, 163, 69-70.	0.7	3

108 Carotenoid Overproduction in Microalgae: Biochemical and Genetic Engineering. , 2020, , 81-126.

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109	Chlorophylls, Chlorophyll-Related Molecules, and Open-Chain Tetrapyrroles. , 2012, , 665-686.		3
110	Spectroscopic Properties of Protochlorophyllide Analyzed In Situ in the Course of Etiolation and in Illuminated Leaves ¶. Photochemistry and Photobiology, 2007, 72, 85-93.	1.3	2
111	Spectral Heterogeneity of the Photoinactive Protochlorophyllide in Dark-Grown Bean Leaves and Pine Cotyledons. , 1995, , 2949-2952.		2
112	Modifications of the Carotenoid Metabolism in Plastids. Books in Soils, Plants, and the Environment, 2010, , 407-433.	0.1	2
113	Role of Nadph:Protochlorophyllide Reductase in Photoprotection of Newly Formed Chlorophyllide. , 1995, , 2953-2956.		1
114	Kinetics of the Photoreduction of Protochlorophyllide (Pchlide) to Chlorophyllide (Chlide) in Leaves of Phaseolus Vulgaris CV Commodore. , 1993, , 303-304.		1
115	Development of the Photosynthetic Apparatus in Fucus Serratus Embryos. , 1998, , 3245-3248.		1
116	Light-Minus-Dark Absorbance Spectra During Photoactive Pchlide Photoreduction. , 1997, , 133-134.		1
117	Protochlorophyllide Photoreduction—A Review. Books in Soils, Plants, and the Environment, 2005, , .	0.1	1
118	Selection of Culture Conditions and Cell Morphology for Biocompatible Extraction of β-Carotene from Dunaliella salina. Marine Drugs, 2021, 19, 648.	2.2	1
119	Photoactive Protochlorophyllide Regeneration in Cotyledons and Leaves from Higher Plantsâ€Â¶. Photochemistry and Photobiology, 2007, 72, 660-668.	1.3	0
120	Review of the volume 143 †Diatom research over time and space' of Nova Hedwigia Beiheft 143. Botany Letters, 2017, 164, 103-103.	0.7	0
121	Focus editorial: new contributions in diatom research. Botany Letters, 2019, 166, 115-116.	0.7	0
122	Chlorophyll Biosynthesis During Plant Greening. , 2001, , .		0
123	Screening for Solute Transporters in Plant Photosynthetic Membranes. , 2008, , 1067-1069.		0
124	Editorial: Metabolic Regulation of Diatoms and Other Chromalveolates. Frontiers in Plant Science, 2022, 13, 897639.	1.7	0