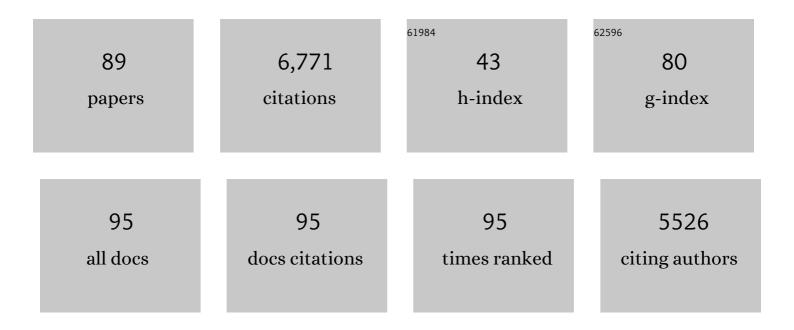
Laurent Cournac

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Arbuscular Mycorrhizal Fungi Alleviate the Negative Effect of Temperature Stress in Millet Lines with Contrasting Soil Aggregation Potential. Gesunde Pflanzen, 2022, 74, 53-67.	3.0	7

Rhizodeposition efficiency of pearl millet genotypes assessed on a short growing period by carbon isotopes (<i&gt;Î &lt;/i&gt;&lt;sup&gt;13&lt;/sup&gt;C and) Tj ETQq0 0 04#gBT /Overlock 10 Tf

3	Pearl millet genotype impacts microbial diversity and enzymatic activities in relation to root-adhering soil aggregation. Plant and Soil, 2021, 464, 109.	3.7	22
4	An overlooked local resource: Shrub-intercropping for food production, drought resistance and ecosystem restoration in the Sahel. Agriculture, Ecosystems and Environment, 2021, 319, 107523.	5.3	4
5	Methanogenic and fertilizing potential of aquaculture waste: towards freshwater farms energy selfâ€sufficiency in the framework of blue growth. Reviews in Aquaculture, 2020, 12, 1435-1444.	9.0	3
6	The rhizosheath: from desert plants adaptation to crop breeding. Plant and Soil, 2020, 456, 1-13.	3.7	47
7	Functional redundancy between flavodiiron proteins and NDHâ€1 in <i>Synechocystis</i> sp. PCC 6803. Plant Journal, 2020, 103, 1460-1476.	5.7	29
8	How far does the tree affect the crop in agroforestry? New spatial analysis methods in a Faidherbia parkland. Agriculture, Ecosystems and Environment, 2020, 296, 106928.	5.3	37
9	Inorganic fertilizer use efficiency of millet crop increased with organic fertilizer application in rainfed agriculture on smallholdings in central Senegal. Agriculture, Ecosystems and Environment, 2020, 294, 106878.	5.3	29
10	Development of a model estimating root length density from root impacts on a soil profile in pearl millet (Pennisetum glaucum (L.) R. Br). Application to measure root system response to water stress in field conditions. PLoS ONE, 2019, 14, e0214182.	2.5	21
11	Temporal Microbial Response to Wetting-Drying Cycles in Soils within and Outside the Influence of a Shrub in the Sahel. Open Journal of Soil Science, 2019, 09, 284-297.	0.8	0
12	Response to early drought stress and identification of QTLs controlling biomass production under drought in pearl millet. PLoS ONE, 2018, 13, e0201635.	2.5	46
13	Enhancing agroecosystem productivity with woody perennials in semi-arid West Africa. A meta-analysis. Agronomy for Sustainable Development, 2018, 38, 57.	5.3	27
14	Use and management of biodiversity by smallholder farmers in semi-arid West Africa. Global Food Security, 2018, 18, 76-85.	8.1	27
15	Ramial wood amendments (<scp><i>Piliostigma reticulatum</i></scp>) mitigate degradation of tropical soils but do not replenish nutrient exports. Land Degradation and Development, 2018, 29, 2694-2706.	3.9	15
16	Attractancy of bacterivorous nematodes to root-adhering soils differs according to rice cultivars. Rhizosphere, 2017, 3, 128-131.	3.0	3
17	Soil organic carbon, microbial biomass and enzyme activities responses to natural regeneration in a tropical dry region in Northeast Brazil. Catena, 2017, 151, 137-146.	5.0	54
18	Pearl Millet Genetic Traits Shape Rhizobacterial Diversity and Modulate Rhizosphere Aggregation. Frontiers in Plant Science, 2017, 8, 1288.	3.6	23

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19	Temperature dependence of CO 2 emissions rates and isotopic signature from a calcareous soil. Journal of Arid Environments, 2016, 135, 132-139.	2.4	21
20	Estimation of the driving force for dioxygen formation in photosynthesis. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 23-33.	1.0	19
21	Impact of Simulated Drought Stress on Soil Microbiology, and Nematofauna in a Native Shrub + Millet Intercropping System in Senegal. Open Journal of Soil Science, 2016, 06, 189-203.	0.8	5
22	Sub-chapter 3.5.3. Soil carbon as an indicator of Mediterranean soil quality. , 2016, , 627-636.		3
23	Effect of ramial wood amendment on sorghum production and topsoil quality in a Sudano-Sahelian ecosystem (central Burkina Faso). Agroforestry Systems, 2015, 89, 81-93.	2.0	11
24	A Threonine Stabilizes the NiC and NiR Catalytic Intermediates of [NiFe]-hydrogenase. Journal of Biological Chemistry, 2015, 290, 8550-8558.	3.4	18
25	Heterocyst-specific flavodiiron protein Flv3B enables oxic diazotrophic growth of the filamentous cyanobacterium <i>Anabaena</i> sp. PCC 7120. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11205-11210.	7.1	55
26	Plastidial Expression of Type II NAD(P)H Dehydrogenase Increases the Reducing State of Plastoquinones and Hydrogen Photoproduction Rate by the Indirect Pathway in <i>Chlamydomonas reinhardtii</i> Â Â Â. Plant Physiology, 2014, 165, 1344-1352.	4.8	47
27	Improved oxygen tolerance of the Synechocystis sp. PCC 6803 bidirectional hydrogenase by site-directed mutagenesis of putative residues of the gas diffusion channel. International Journal of Hydrogen Energy, 2014, 39, 16872-16884.	7.1	16
28	Flavodiiron proteins Flv1 and Flv3 enable cyanobacterial growth and photosynthesis under fluctuating light. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4111-4116.	7.1	287
29	The AbrB2 Autorepressor, Expressed from an Atypical Promoter, Represses the Hydrogenase Operon To Regulate Hydrogen Production in Synechocystis Strain PCC6803. Journal of Bacteriology, 2012, 194, 5423-5433.	2.2	45
30	Reversible oxygenâ€ŧolerant hydrogenase carried by freeâ€ŀiving N ₂ â€fixing bacteria isolated from the rhizospheres of rice, maize, and wheat. MicrobiologyOpen, 2012, 1, 349-361.	3.0	5
31	PredAlgo: A New Subcellular Localization Prediction Tool Dedicated to Green Algae. Molecular Biology and Evolution, 2012, 29, 3625-3639.	8.9	270
32	Understanding and Tuning the Catalytic Bias of Hydrogenase. Journal of the American Chemical Society, 2012, 134, 8368-8371.	13.7	103
33	An economic, sustainability, and energetic model of biodiesel production from microalgae. Bioresource Technology, 2012, 111, 191-200.	9.6	283
34	The quest for a functional substrate access tunnel in FeFe hydrogenase. Faraday Discussions, 2011, 148, 385-407.	3.2	70
35	Original Design of an Oxygen-Tolerant [NiFe] Hydrogenase: Major Effect of a Valine-to-Cysteine Mutation near the Active Site. Journal of the American Chemical Society, 2011, 133, 986-997.	13.7	91
36	Role of HoxE subunit in <i>Synechocystis</i> PCC6803 hydrogenase. FEBS Journal, 2011, 278, 4035-4043.	4.7	31

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37	Interplay between Flavodiiron Proteins and Photorespiration in Synechocystis sp. PCC 6803. Journal of Biological Chemistry, 2011, 286, 24007-24014.	3.4	111
38	Control of Hydrogen Photoproduction by the Proton Gradient Generated by Cyclic Electron Flow in <i>Chlamydomonas reinhardtii</i> . Plant Cell, 2011, 23, 2619-2630.	6.6	176
39	Auxiliary electron transport pathways in chloroplasts of microalgae. Photosynthesis Research, 2010, 106, 19-31.	2.9	152
40	ls engineering O2-tolerant hydrogenases just a matter of reproducing the active sites of the naturally occurring O2-resistant enzymes?. International Journal of Hydrogen Energy, 2010, 35, 10770-10777.	7.1	14
41	Relationships between PSII-independent hydrogen bioproduction and starch metabolism as evidenced from isolation of starch catabolism mutants in the green alga Chlamydomonas reinhardtii. International Journal of Hydrogen Energy, 2010, 35, 10731-10740.	7.1	37
42	Characterization of Nda2, a Plastoquinone-reducing Type II NAD(P)H Dehydrogenase in Chlamydomonas Chloroplasts. Journal of Biological Chemistry, 2009, 284, 4148-4157.	3.4	134
43	Hydrogen Production in <i>Chlamydomonas</i> : Photosystem II-Dependent and -Independent Pathways Differ in Their Requirement for Starch Metabolism Â. Plant Physiology, 2009, 151, 631-640.	4.8	154
44	Introduction of Methionines in the Gas Channel Makes [NiFe] Hydrogenase Aero-Tolerant. Journal of the American Chemical Society, 2009, 131, 10156-10164.	13.7	105
45	Hydrogenâ€Activating Enzymes: Activity Does Not Correlate with Oxygen Sensitivity. Angewandte Chemie - International Edition, 2008, 47, 2052-2054.	13.8	81
46	A type II NAD(P)H dehydrogenase mediates light-independent plastoquinone reduction in the chloroplast of <i>Chlamydomonas</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20546-20551.	7.1	187
47	Experimental approaches to kinetics of gas diffusion in hydrogenase. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11188-11193.	7.1	150
48	Effects of canopy gap size on recruitment and invasion of the non-indigenous <i>Rubus alceifolius</i> in lowland tropical rain forest on Réunion. Journal of Tropical Ecology, 2008, 24, 337-345.	1.1	32
49	Potential for hydrogen production with inducible chloroplast gene expression in <i>Chlamydomonas</i> . Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17548-17553.	7.1	181
50	Effect of selenate on growth and photosynthesis of Chlamydomonas reinhardtii. Aquatic Toxicology, 2007, 83, 149-158.	4.0	97
51	Modification of substrate specificity in single point mutants of <i>Agrobacterium tumefaciens</i> type II NADH dehydrogenase. FEBS Letters, 2007, 581, 4017-4022.	2.8	15
52	Chlororespiration and cyclic electron flow around PSI during photosynthesis and plant stress response. Plant, Cell and Environment, 2007, 30, 1041-1051.	5.7	362
53	Complete activity profile of <i>Clostridium acetobutylicum</i> [FeFe]-hydrogenase and kinetic parameters for endogenous redox partners. FEMS Microbiology Letters, 2007, 275, 113-121.	1.8	70
54	Hydrogen production by Chlamydomonas reinhardtii: an elaborate interplay of electron sources and sinks. Planta, 2007, 227, 397-407.	3.2	187

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55	Agrobacterium tumefaciens type II NADH dehydrogenase FEBS Journal, 2006, 273, 3625-3637.	4.7	15
56	Plastidial phosphorylase is required for normal starch synthesis inChlamydomonas reinhardtii. Plant Journal, 2006, 48, 274-285.	5.7	105
57	Enlarging the gas access channel to the active site renders the regulatory hydrogenase HupUV of Rhodobacter capsulatus O2 sensitive without affecting its transductory activity. FEBS Journal, 2005, 272, 3899-3908.	4.7	73
58	Hydrogen independent expression of hupSL genes in Thiocapsa roseopersicina BBS. FEBS Journal, 2005, 272, 4807-4816.	4.7	18
59	Autotrophic and Mixotrophic Hydrogen Photoproduction in Sulfur-Deprived Chlamydomonas Cells. Applied and Environmental Microbiology, 2005, 71, 6199-6205.	3.1	170
60	Inhibitor studies on non-photochemical plastoquinone reduction and H2 photoproduction in Chlamydomonas reinhardtii. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 322-332.	1.0	128
61	Sustained Photoevolution of Molecular Hydrogen in a Mutant of Synechocystis sp. Strain PCC 6803 Deficient in the Type I NADPH-Dehydrogenase Complex. Journal of Bacteriology, 2004, 186, 1737-1746.	2.2	230
62	Gas Exchange in the Filamentous Cyanobacterium Nostoc punctiforme Strain ATCC 29133 and ItsHydrogenase-Deficient Mutant StrainNHM5. Applied and Environmental Microbiology, 2004, 70, 2137-2145.	3.1	53
63	Molecular hydrogen from water radiolysis as an energy source for bacterial growth in a basin containing irradiating waste. FEMS Microbiology Letters, 2004, 240, 155-162.	1.8	30
64	Involvement of a Plastid Terminal Oxidase in Plastoquinone Oxidation as Evidenced by Expression of the Arabidopsis thaliana Enzyme in Tobacco. Journal of Biological Chemistry, 2002, 277, 31623-31630.	3.4	147
65	Cyclic Electron Flow around Photosystem I in C3Plants. In Vivo Control by the Redox State of Chloroplasts and Involvement of the NADH-Dehydrogenase Complex. Plant Physiology, 2002, 128, 760-769.	4.8	179
66	Fast determination of light availability and leaf area index in tropical forests. Journal of Tropical Ecology, 2002, 18, 295-302.	1.1	41
67	In Vivo Interactions between Photosynthesis, Mitorespiration, and Chlororespiration in Chlamydomonas reinhardtii. Plant Physiology, 2002, 129, 1921-1928.	4.8	90
68	CHLORORESPIRATION. Annual Review of Plant Biology, 2002, 53, 523-550.	18.7	359
69	Bioelectrocatalytic hydrogen production by hydrogenase electrodes. International Journal of Hydrogen Energy, 2002, 27, 1501-1505.	7.1	45
70	Limiting steps of hydrogen production in Chlamydomonas reinhardtii and Synechocystis PCC 6803 as analysed by light-induced gas exchange transients. International Journal of Hydrogen Energy, 2002, 27, 1229-1237.	7.1	87
71	Continuous monitoring of the activation and activity of 6NiFe9-hydrogenases by membrane-inlet mass spectrometry. International Journal of Hydrogen Energy, 2002, 27, 1441-1448.	7.1	43
72	Increased Sensitivity of Photosynthesis to Antimycin A Induced by Inactivation of the Chloroplast ndhB Gene. Evidence for a Participation of the NADH-Dehydrogenase Complex to Cyclic Electron Flow around Photosystem I. Plant Physiology, 2001, 125, 1919-1929.	4.8	122

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73	Electron Flow between Photosystem II and Oxygen in Chloroplasts of Photosystem I-deficient Algae Is Mediated by a Quinol Oxidase Involved in Chlororespiration. Journal of Biological Chemistry, 2000, 275, 17256-17262.	3.4	149
74	Targeted Inactivation of the Plastid ndhB Gene in Tobacco Results in an Enhanced Sensitivity of Photosynthesis to Moderate Stomatal Closure. Plant Physiology, 2000, 123, 1337-1350.	4.8	219
75	Flexibility in photosynthetic electron transport: a newly identified chloroplast oxidase involved in chlororespiration. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 1447-1454.	4.0	66
76	Photosystem I Is Indispensable for Photoautotrophic Growth, CO2 Fixation, and H2 Photoproduction inChlamydomonas reinhardtii. Journal of Biological Chemistry, 1999, 274, 10466-10473.	3.4	62
77	Reduction of the plastoquinone pool by exogenous NADH and NADPH in higher plant chloroplasts. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1363, 59-69.	1.0	95
78	Non-Photochemical Reduction of Intersystem Electron Carriers in Chloroplasts of Higher Plants and Algae. , 1998, , 1877-1882.		15
79	Increased Sensitivity of Photosynthesis to Anaerobic Conditions Induced by Targeted Inactivation of the Chloroplast ndhB Gene. , 1998, , 1967-1970.		5
80	Limited photosynthetic electron flow but no CO2fixation inChlamydomonasmutants lacking photosystem I. FEBS Letters, 1997, 416, 65-68.	2.8	24
81	Impact of late-season drought on water relations in a sparse canopy of millet (Pennisetum glaucum) Tj ETQq1 1	0.784314 5.1	rgBT /Overloo
82	Carbonic anhydrase activity in leaves as measured in vivo by180 exchange between carbon dioxide and water. Planta, 1995, 196, 732-739.	3.2	17
83	Carbonic anhydrase activity in leaves as measured in vivo by 180 exchange between carbon dioxide and water. Planta, 1995, 196, 732.	3.2	5
84	ECOSIMP2 model: Prediction of CO2 concentration changes and carbon status in closed ecosystems. Advances in Space Research, 1994, 14, 323-326.	2.6	12
85	Evidence for 180 labeling of photorespiratory CO2 in photoautotrophic cell cultures of higher plants illuminated in the presence of 1802. Planta, 1993, 190, 407.	3.2	7
86	IMPROVEMENT OF PHOTOAUTOTROPHIC SOLANUM TUBEROSUM PLANTLET CULTURE BY LIGHT AND CO2 : DIFFERENTIAL DEVELOPMENT OF PHOTOSYNTHETIC CHARACTERISTICS AND VARIETAL CONSTRAINTS Acta Horticulturae, 1992, , 53-58.	0.2	11
87	A simplified ecosystem based on higher plants: Ecosimp, a model of carbon cycle. Acta Astronautica, 1992, 27, 189-196.	3.2	4
88	Growth and Photosynthetic Characteristics of <i>Solanum tuberosum</i> Plantlets Cultivated <i>in Vitro</i> in Different Conditions of Aeration, Sucrose Supply, and CO ₂ Enrichment. Plant Physiology, 1991, 97, 112-117.	4.8	85
89	Towards Hydrogenase Engineering for Hydrogen Production. , 0, , 247-257.		3