

Lucien Hoffmann

List of Publications by Year in descending order

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105
papers

9,281
citations

31976

53
h-index

40979

93
g-index

106
all docs

106
docs citations

106
times ranked

11653
citing authors

#	ARTICLE	IF	CITATIONS
1	Housekeeping gene selection for real-time RT-PCR normalization in potato during biotic and abiotic stress. <i>Journal of Experimental Botany</i> , 2005, 56, 2907-2914.	4.8	1,118
2	Total phenolics, flavonoids, anthocyanins and antioxidant activity following simulated gastro-intestinal digestion and dialysis of apple varieties: Bioaccessibility and potential uptake. <i>Food Chemistry</i> , 2011, 128, 14-21.	8.2	499
3	Phylogenetic and morphological evaluation of the genera <i>Anabaena</i> , <i>Aphanizomenon</i> , <i>Trichormus</i> and <i>Nostoc</i> (Nostocales, Cyanobacteria). <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 11-26.	1.7	297
4	Phylum BX. Cyanobacteria. , 2001, , 473-599.		264
5	Andean Potato Cultivars (<i>Solanum tuberosum</i> L.) as a Source of Antioxidant and Mineral Micronutrients. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 366-378.	5.2	249
6	Algae of terrestrial habitats. <i>Botanical Review</i> , The, 1989, 55, 77-105.	3.9	222
7	Alteration of oxidative and carbohydrate metabolism under abiotic stress in two rice (<i>Oryza sativa</i> L.) genotypes contrasting in chilling tolerance. <i>Journal of Plant Physiology</i> , 2007, 164, 157-167.	3.5	215
8	Bioaccessible and dialysable polyphenols in selected apple varieties following in vitro digestion vs. their native patterns. <i>Food Chemistry</i> , 2012, 131, 1466-1472.	8.2	214
9	Quantitative changes in protein expression of cadmium-exposed poplar plants. <i>Proteomics</i> , 2008, 8, 2514-2530.	2.2	200
10	Nomenclatural validation of the genetically revised cyanobacterial genus <i>Dolichospermum</i> (RALFS ex) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	192
11	Gene expression changes related to the production of phenolic compounds in potato tubers grown under drought stress. <i>Phytochemistry</i> , 2009, 70, 1107-1116.	2.9	182
12	System of cyanoprokaryotes (cyanobacteria) state in 2004. <i>Algological Studies</i> , 2005, 117, 95-115.	0.1	167
13	Comparison of 3 Spectrophotometric Methods for Carotenoid Determination in Frequently Consumed Fruits and Vegetables. <i>Journal of Food Science</i> , 2010, 75, C55-61.	3.1	167
14	Polyphyly of true branching cyanobacteria (Stigonematales). <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 349-357.	1.7	164
15	Identification of drought-responsive compounds in potato through a combined transcriptomic and targeted metabolite approach. <i>Journal of Experimental Botany</i> , 2010, 61, 2327-2343.	4.8	156
16	High-Resolution 3-D Flood Information From Radar Imagery for Flood Hazard Management. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 1715-1725.	6.3	155
17	Antioxidant Profiling of Native Andean Potato Tubers (<i>Solanum tuberosum</i> L.) Reveals Cultivars with High Levels of β -Carotene, α -Tocopherol, Chlorogenic Acid, and Petanin. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 10839-10849.	5.2	147
18	Combining Proteomics and Metabolite Analyses To Unravel Cadmium Stress-Response in Poplar Leaves. <i>Journal of Proteome Research</i> , 2009, 8, 400-417.	3.7	142

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19	The use of sediment colour measured by diffuse reflectance spectrometry to determine sediment sources: Application to the Attert River catchment (Luxembourg). <i>Journal of Hydrology</i> , 2010, 382, 49-63.	5.4	129
20	Plant seed mucilage as emerging biopolymer in food industry applications. <i>Current Opinion in Food Science</i> , 2018, 22, 28-42.	8.0	128
21	Development of a multi-class method for the quantification of veterinary drug residues in feedingstuffs by liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 6394-6404.	3.7	127
22	MORPHOLOGICAL AND MOLECULAR CHARACTERIZATION OF PLANKTONIC CYANOBACTERIA FROM BELGIUM AND LUXEMBOURG1. <i>Journal of Phycology</i> , 2006, 42, 1312-1332.	2.3	126
23	A European Database of <i>Fusarium graminearum</i> and <i>F. culmorum</i> Trichothecene Genotypes. <i>Frontiers in Microbiology</i> , 2016, 7, 406.	3.5	124
24	Proteomic and enzymatic response of poplar to cadmium stress. <i>Journal of Proteomics</i> , 2009, 72, 379-396.	2.4	121
25	Carotenoids, polyphenols and micronutrient profiles of Brassica oleraceae and plum varieties and their contribution to measures of total antioxidant capacity. <i>Food Chemistry</i> , 2014, 155, 240-250.	8.2	110
26	Water Level Estimation and Reduction of Hydraulic Model Calibration Uncertainties Using Satellite SAR Images of Floods. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 431-441.	6.3	108
27	Polyphenol and glycoalkaloid contents in potato cultivars grown in Luxembourg. <i>Food Chemistry</i> , 2012, 135, 2814-2824.	8.2	106
28	A DIGE analysis of developing poplar leaves subjected to ozone reveals major changes in carbon metabolism. <i>Proteomics</i> , 2007, 7, 1584-1599.	2.2	104
29	Analysis of carbohydrates in plants by high-performance anion-exchange chromatography coupled with electrospray mass spectrometry. <i>Journal of Chromatography A</i> , 2005, 1085, 137-142.	3.7	97
30	Effects of the Endocrine Disruptors Atrazine and PCB 153 on the Protein Expression of MCF-7 Human Cells. <i>Journal of Proteome Research</i> , 2009, 8, 5485-5496.	3.7	94
31	Hydrogeologic and landscape controls of dissolved inorganic nitrogen (DIN) and dissolved silica (DSi) fluxes in heterogeneous catchments. <i>Journal of Hydrology</i> , 2012, 450-451, 36-47.	5.4	94
32	Dissolved and particulate nutrient export from rural catchments: A case study from Luxembourg. <i>Science of the Total Environment</i> , 2005, 344, 51-65.	8.0	85
33	Contribution of violaxanthin, neoxanthin, phytoene and phytofluene to total carotenoid intake: Assessment in Luxembourg. <i>Journal of Food Composition and Analysis</i> , 2012, 25, 56-65.	3.9	85
34	Interactions of <i>Cryptosporidium parvum</i> , <i>Giardia lamblia</i> , Vaccinal Poliovirus Type 1, and Bacteriophages Φ X174 and MS2 with a Drinking Water Biofilm and a Wastewater Biofilm. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2079-2088.	3.1	83
35	Assessing the impact of mixing assumptions on the estimation of streamwater mean residence time. <i>Hydrological Processes</i> , 2010, 24, 1730-1741.	2.6	83
36	Carotenoid and polyphenol bioaccessibility and cellular uptake from plum and cabbage varieties. <i>Food Chemistry</i> , 2016, 197, 325-332.	8.2	81

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37	Biochemical and physiological mechanisms related to cold acclimation and enhanced freezing tolerance in poplar plantlets. <i>Physiologia Plantarum</i> , 2005, 125, 82-94.	5.2	79
38	Influence of environment and genotype on polyphenol compounds and in vitro antioxidant capacity of native Andean potatoes (<i>Solanum tuberosum</i> L.). <i>Journal of Food Composition and Analysis</i> , 2009, 22, 517-524.	3.9	79
39	A rapid spectral-reflectance-based fingerprinting approach for documenting suspended sediment sources during storm runoff events. <i>Journal of Soils and Sediments</i> , 2010, 10, 400-413.	3.0	76
40	Assessment of different colour parameters for discriminating potential suspended sediment sources and provenance: A multi-scale study in Luxembourg. <i>Geomorphology</i> , 2010, 118, 118-129.	2.6	74
41	Distribution of Hepatotoxic Cyanobacterial Blooms in Belgium and Luxembourg. <i>Hydrobiologia</i> , 2005, 551, 99-117.	2.0	71
42	Dietary and host-related factors influencing carotenoid bioaccessibility from spinach (<i>Spinacia</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54.	8.2	68
43	Divalent Minerals Decrease Micellarization and Uptake of Carotenoids and Digestion Products into Caco-2 Cells. <i>Journal of Nutrition</i> , 2011, 141, 1769-1776.	2.9	68
44	Ground-based thermal imagery as a simple, practical tool for mapping saturated area connectivity and dynamics. <i>Hydrological Processes</i> , 2010, 24, 3123-3132.	2.6	65
45	Response of diatom indices to simulated water quality improvements in a river. <i>Journal of Applied Phycology</i> , 2005, 17, 119-128.	2.8	64
46	Taxonomic consequences from the combined molecular and phenotype evaluation of selected <i>Anabaena</i> and <i>Aphanizomenon</i> strains. <i>Algal Studies</i> , 2005, 117, 371-391.	0.1	64
47	Gene expression in potato during cold exposure: Changes in carbohydrate and polyamine metabolisms. <i>Plant Science</i> , 2008, 175, 839-852.	3.6	64
48	The impact of atmospheric composition on plants: A case study of ozone and poplar. <i>Mass Spectrometry Reviews</i> , 2009, 28, 495-516.	5.4	64
49	Laingolide, a novel 15-membered macrolide from <i>Lyngbya bouillonii</i> (cyanophyceae). <i>Tetrahedron Letters</i> , 1996, 37, 7519-7520.	1.4	63
50	Molecular phylogeny of the family Bacillariaceae based on 18S rDNA sequences: focus on freshwater <i>Nitzschia</i> of the section <i>Lanceolatae</i> . <i>Diatom Research</i> , 2011, 26, 273-291.	1.2	63
51	Chemical stability and bioaccessibility of β -carotene encapsulated in sodium alginate o/w emulsions: Impact of Ca ²⁺ mediated gelation. <i>Food Hydrocolloids</i> , 2016, 57, 301-310.	10.7	63
52	Occurrence and persistence of enteroviruses, noroviruses and F-specific RNA phages in natural wastewater biofilms. <i>Water Research</i> , 2009, 43, 4780-4789.	11.3	62
53	Canopy-scale biophysical controls of transpiration and evaporation in the Amazon Basin. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4237-4264.	4.9	62
54	The rivers are alive: on the potential for diatoms as a tracer of water source and hydrological connectivity. <i>Hydrological Processes</i> , 2009, 23, 2841-2845.	2.6	61

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55	Correlations between land covers and honey bee colony losses in a country with industrialized and rural regions. <i>Science of the Total Environment</i> , 2015, 532, 1-13.	8.0	55
56	Modification of the Health-Promoting Value of Potato Tubers Field Grown under Drought Stress: Emphasis on Dietary Antioxidant and Glycoalkaloid Contents in Five Native Andean Cultivars (<i>Solanum tuberosum</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 599-609.	5.2	52
57	Proteomic analysis of plasma samples from patients with acute myocardial infarction identifies haptoglobin as a potential prognostic biomarker. <i>Journal of Proteomics</i> , 2011, 75, 229-236.	2.4	50
58	Reintroducing radiometric surface temperature into the Penman-Monteith formulation. <i>Water Resources Research</i> , 2015, 51, 6214-6243.	4.2	49
59	Diatom flora in subterranean ecosystems: a review. <i>International Journal of Speleology</i> , 2014, 43, 231-251.	1.0	48
60	Effect of divalent minerals on the bioaccessibility of pure carotenoids and on physical properties of gastro-intestinal fluids. <i>Food Chemistry</i> , 2016, 197, 546-553.	8.2	48
61	Poplar under drought: Comparison of leaf and cambial proteomic responses. <i>Journal of Proteomics</i> , 2011, 74, 1396-1410.	2.4	46
62	Lyngbyapeptin A, a modified tetrapeptide from <i>Lyngbya bouillonii</i> (Cyanophyceae). <i>Tetrahedron Letters</i> , 1999, 40, 695-696.	1.4	44
63	Two-year monitoring of <i>Cryptosporidium parvum</i> and <i>Giardia lamblia</i> occurrence in a recreational and drinking water reservoir using standard microscopic and molecular biology techniques. <i>Environmental Monitoring and Assessment</i> , 2011, 179, 163-175.	2.7	43
64	Negative effects of divalent mineral cations on the bioaccessibility of carotenoids from plant food matrices and related physical properties of gastro-intestinal fluids. <i>Food and Function</i> , 2017, 8, 1008-1019.	4.6	43
65	Winter honey bee colony losses, <i>Varroa destructor</i> control strategies, and the role of weather conditions: Results from a survey among beekeepers. <i>Research in Veterinary Science</i> , 2018, 118, 52-60.	1.9	43
66	Recent Trends in Rainfall-Runoff Characteristics in the Alzette River Basin, Luxembourg. <i>Climatic Change</i> , 2000, 45, 323-337.	3.6	42
67	Analysing the effect of climate changes on streamflow using statistically downscaled GCM scenarios. <i>International Journal of River Basin Management</i> , 2004, 2, 271-280.	2.7	40
68	Inflammation related responses of intestinal cells to plum and cabbage digesta with differential carotenoid and polyphenol profiles following simulated gastrointestinal digestion. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 992-1005.	3.3	40
69	Evidence for natural resistance towards trifloxystrobin in <i>Fusarium graminearum</i> . <i>European Journal of Plant Pathology</i> , 2011, 130, 239-248.	1.7	38
70	Carbohydrate metabolism and cell protection mechanisms differentiate drought tolerance and sensitivity in advanced potato clones (<i>Solanum tuberosum</i> L.). <i>Functional and Integrative Genomics</i> , 2011, 11, 275-291.	3.5	36
71	Evidence for a reversible drought induced shift in the species composition of mycotoxin producing <i>Fusarium</i> head blight pathogens isolated from symptomatic wheat heads. <i>International Journal of Food Microbiology</i> , 2014, 182-183, 51-56.	4.7	36
72	Magnesium affects spinach carotenoid bioaccessibility in vitro depending on intestinal bile and pancreatic enzyme concentrations. <i>Food Chemistry</i> , 2018, 239, 751-759.	8.2	35

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73	Biochemical characterization of early and late bud flushing in common ash (<i>Fraxinus excelsior</i> L.). <i>Plant Science</i> , 2007, 172, 962-969.	3.6	32
74	The Influence of Sediment Sources and Hydrologic Events on the Nutrient and Metal Content of Fine-Grained Sediments (Attert River Basin, Luxembourg). <i>Water, Air, and Soil Pollution</i> , 2012, 223, 5685-5705.	2.4	31
75	Differential impact of chronic ozone exposure on expanding and fully expanded poplar leaves. <i>Tree Physiology</i> , 2010, 30, 1415-1432.	3.1	30
76	Changes in diatom-dominated biofilms during simulated improvements in water quality: implications for diatom-based monitoring in rivers. <i>European Journal of Phycology</i> , 2009, 44, 567-577.	2.0	29
77	Monitoring gene expression of potato under salinity using cDNA microarrays. <i>Plant Cell Reports</i> , 2009, 28, 1799-1816.	5.6	27
78	Simultaneous measurement of proline and related compounds in oak leaves by high-performance ligand-exchange chromatography and electrospray ionization mass spectrometry for environmental stress studies. <i>Journal of Chromatography A</i> , 2009, 1216, 1094-1099.	3.7	27
79	A physiological and proteomic study of poplar leaves during ozone exposure combined with mild drought. <i>Proteomics</i> , 2013, 13, 1737-1754.	2.2	27
80	Pesticide residue profiles in bee bread and pollen samples and the survival of honeybee colonies—a case study from Luxembourg. <i>Environmental Science and Pollution Research</i> , 2018, 25, 32163-32177.	5.3	27
81	Dynamics of storm-driven suspended sediments in a headwater catchment described by multivariable modeling. <i>Journal of Soils and Sediments</i> , 2012, 12, 620-635.	3.0	26
82	A survey on some factors potentially affecting losses of managed honey bee colonies in Luxembourg over the winters 2010/2011 and 2011/2012. <i>Journal of Apicultural Research</i> , 2014, 53, 43-56.	1.5	26
83	Selective factors governing in vitro β -carotene bioaccessibility: negative influence of low filtration cutoffs and alterations by emulsifiers and food matrices. <i>Nutrition Research</i> , 2014, 34, 1101-1110.	2.9	26
84	Antioxidative Mechanisms of Whole-Apple Antioxidants Employing Different Varieties from Luxembourg. <i>Journal of Medicinal Food</i> , 2011, 14, 1631-1637.	1.5	24
85	Comparative Analysis of Genetic Chemotyping Methods for <i>Fusarium</i> : Tri13 Polymorphism Does not Discriminate between 3- and 15-acetylated Deoxynivalenol Chemotypes in <i>Fusarium graminearum</i> . <i>Journal of Phytopathology</i> , 2011, 159, 700-704.	1.0	24
86	Atrazine and PCB 153 and their effects on the proteome of subcellular fractions of human MCF-7 cells. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 833-841.	2.3	23
87	Carotenoid exposure of Caco-2 intestinal epithelial cells did not affect selected inflammatory markers but altered their proteomic response. <i>British Journal of Nutrition</i> , 2012, 108, 963-973.	2.3	21
88	Rheological and structural characterisation of whey protein acid gels co-structured with chia (<i>Salvia hispanica</i> L.) or flax seed (<i>Linum usitatissimum</i> L.) mucilage. <i>Food Hydrocolloids</i> , 2019, 89, 542-553.	10.7	21
89	A Difference Gel Electrophoresis Study on Thylakoids Isolated from Poplar Leaves Reveals a Negative Impact of Ozone Exposure on Membrane Proteins. <i>Journal of Proteome Research</i> , 2011, 10, 3003-3011.	3.7	20
90	New Combinations and Type Analysis of <i>Chamaepinnularia</i> Species (Bacillariophyceae) from Aerial Habitats. <i>Cryptogamie, Algologie</i> , 2013, 34, 149-168.	0.9	20

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91	No influence of supplemental dietary calcium intake on the bioavailability of spinach carotenoids in humans. <i>British Journal of Nutrition</i> , 2017, 117, 1560-1569.	2.3	20
92	Cyanidium-like algae from caves. , 1994, , 175-182.		18
93	Spatial Variability of Trends in the Rainfall-Runoff Relationship: A Mesoscale Study in the Mosel Basin. <i>Climatic Change</i> , 2004, 66, 67-87.	3.6	18
94	Ecophysiological responses of nine floodplain meadow species to changing hydrological conditions. <i>Plant Ecology</i> , 2009, 201, 589-598.	1.6	18
95	Evaluating uncertain flood inundation predictions with uncertain remotely sensed water stages. <i>International Journal of River Basin Management</i> , 2008, 6, 187-199.	2.7	17
96	Evaluation and comparison of nutritional quality and bioactive compounds of berry fruits from <i>Lonicera caerulea</i> , <i>Ribes L.</i> species and <i>Rubus idaeus</i> grown in Russia. <i>Journal of Berry Research</i> , 2011, 1, 159-167.	1.4	16
97	Diatoms as a tracer of hydrological connectivity: are they supply limited?. <i>Ecohydrology</i> , 2016, 9, 631-645.	2.4	15
98	The Luxembourg database of trichothecene type B <i>F. graminearum</i> and <i>F. culmorum</i> producers. <i>Bioinformation</i> , 2016, 12, 1-3.	0.5	14
99	<i>NITZSCHIA ALICAE</i> SP. NOV. AND <i>N. PURIFORMIS</i> SP. NOV., NEW DIATOMS FROM EUROPEAN RIVERS AND COMPARISON WITH THE TYPE MATERIAL OF <i>N. SUBLINEARIS</i> AND <i>N. PURA</i> ¹ . <i>Journal of Phycology</i> , 2009, 45, 742-760.	2.3	10
100	Proteomic response of inflammatory stimulated intestinal epithelial cells to in vitro digested plums and cabbages rich in carotenoids and polyphenols. <i>Food and Function</i> , 2016, 7, 4388-4399.	4.6	9
101	Morphological and molecular characterisation of a stigonematalean cyanobacterium isolated from a Spanish cave. <i>Algological Studies</i> , 2003, 109, 259-265.	0.1	8
102	Assessing the hydrological effects of Landuse changes using distributed hydrological modelling and GIS. <i>International Journal of River Basin Management</i> , 2005, 3, 261-271.	2.7	6
103	Developing a microbiological growth inhibition screening assay for the detection of 27 veterinary drugs from 13 different classes in animal feedingstuffs. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2013, 30, 1870-1887.	2.3	4
104	Seasonal cyanobacterial dynamics in a mesoeutrophic reservoir: microscopic counts and DGGE (Denaturing Gradient Gel Electrophoresis). <i>Algological Studies (Stuttgart, Germany)</i> : 2007), 2009, 129, 71-94.	0.4	1
105	Ecophysiological responses of nine floodplain meadow species to changing hydrological conditions. , 2008, , 225-234.		1