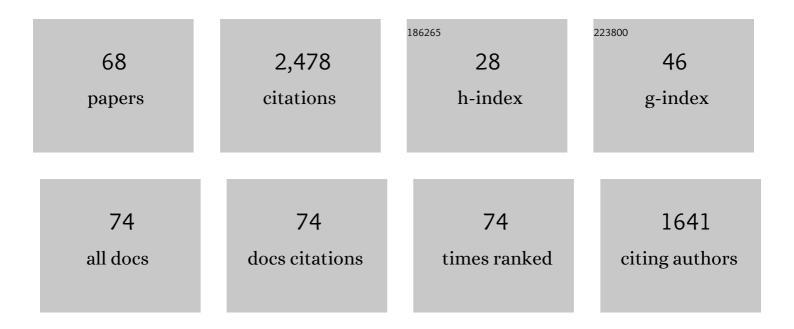
Klaus-J Appenroth

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Intraspecific Diversity in Aquatic Ecosystems: Comparison between Spirodela polyrhiza and Lemna minor in Natural Populations of Duckweed. Plants, 2022, 11, 968.	3.5	4
2	Influence of Light Intensity and Spectrum on Duckweed Growth and Proteins in a Small-Scale, Re-Circulating Indoor Vertical Farm. Plants, 2022, 11, 1010.	3.5	18
3	Interlaboratory Validation of Toxicity Testing Using the Duckweed Lemna minor Root-Regrowth Test. Biology, 2022, 11, 37.	2.8	13
4	Differential localization of flavonoid glucosides in an aquatic plant implicates different functions under abiotic stress. Plant, Cell and Environment, 2021, 44, 900-914.	5.7	22
5	Duckweed Species Genotyping and Interspecific Hybrid Discovery by Tubulin-Based Polymorphism Fingerprinting. Frontiers in Plant Science, 2021, 12, 625670.	3.6	33
6	Clonal diversity amongst island populations of alien, invasive Lemna minuta kunth. Biological Invasions, 2021, 23, 2649.	2.4	7
7	Return of the Lemnaceae: duckweed as a model plant system in the genomics and postgenomics era. Plant Cell, 2021, 33, 3207-3234.	6.6	111
8	Genome and time-of-day transcriptome of <i>Wolffia australiana</i> link morphological minimization with gene loss and less growth control. Genome Research, 2021, 31, 225-238.	5.5	56
9	Microbial Symbionts of Aquatic Plants. Soil Biology, 2021, , 229-240.	0.8	0
10	Accumulation of starch in duckweeds (Lemnaceae), potential energy plants. Physiology and Molecular Biology of Plants, 2021, 27, 2621-2633.	3.1	15
11	Lemnaceae and Orontiaceae Are Phylogenetically and Morphologically Distinct from Araceae. Plants, 2021, 10, 2639.	3.5	16
12	Editorial: Duckweed: Biological Chemistry and Applications. Frontiers in Sustainable Food Systems, 2020, 4, .	3.9	1
13	Key to the determination of taxa of Lemnaceae: an update. Nordic Journal of Botany, 2020, 38, .	0.5	35
14	A taxonomic revision of <i>Lemna</i> sect. <i>Uninerves</i> (Lemnaceae). Taxon, 2020, 69, 56-66.	0.7	46
15	Letter to original article by Kaplan etÂal. 2018 - Protein bioavailability of Wolffia globosa duckweed, a novel aquatic plant, A randomized controlled trial. Clinical Nutrition, 2019, 38, 2463.	5.0	1
16	Duckweed for Human Nutrition: No Cytotoxic and No Anti-Proliferative Effects on Human Cell Lines. Plant Foods for Human Nutrition, 2019, 74, 223-224.	3.2	22
17	Low genetic variation is associated with low mutation rate in the giant duckweed. Nature Communications, 2019, 10, 1243.	12.8	65
18	Duckweed (Lemnaceae): Its Molecular Taxonomy. Frontiers in Sustainable Food Systems, 2019, 3, .	3.9	61

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19	Fingerprinting by amplified fragment length polymorphism (AFLP) and barcoding by three plastidic markers in the genus Wolffiella Hegelm. Plant Systematics and Evolution, 2018, 304, 373-386.	0.9	8
20	Nutritional Value of the Duckweed Species of the Genus Wolffia (Lemnaceae) as Human Food. Frontiers in Chemistry, 2018, 6, 483.	3.6	102
21	Generating a highâ€confidence reference genome map of the Greater Duckweed by integration of cytogenomic, optical mapping, and Oxford Nanopore technologies. Plant Journal, 2018, 96, 670-684.	5.7	64
22	Flower induction, microscope-aided cross-pollination, and seed production in the duckweed Lemna gibba with discovery of a male-sterile clone. Scientific Reports, 2017, 7, 3047.	3.3	23
23	Nutritional value of duckweeds (Lemnaceae) as human food. Food Chemistry, 2017, 217, 266-273.	8.2	192
24	The mapâ€based genome sequence of <i><scp>S</scp>pirodela polyrhiza</i> aligned with its chromosomes, a reference for karyotype evolution. New Phytologist, 2016, 209, 354-363.	7.3	40
25	Mobilization of storage materials during light-induced germination of tomato (Solanum) Tj ETQq1 1 0.784314 i	gBT /Over	lock 10 Tf 50
26	Genetic characterization and barcoding of taxa in the genera Landoltia and Spirodela (Lemnaceae) by three plastidic markers and amplified fragment length polymorphism (AFLP). Hydrobiologia, 2015, 749, 169-182.	2.0	39
27	Phytotoxicity of cobalt ions on the duckweed Lemna minor – Morphology, ion uptake, and starch accumulation. Chemosphere, 2015, 131, 149-156.	8.2	75
28	Natural variance in salt tolerance and induction of starch accumulation in duckweeds. Planta, 2015, 241, 1395-1404.	3.2	61
29	How fast can angiosperms grow? Species and clonal diversity of growth rates in the genus Wolffia (Lemnaceae). Acta Physiologiae Plantarum, 2015, 37, 1.	2.1	65
30	The duckweed Wolffia microscopica: A unique aquatic monocot. Flora: Morphology, Distribution, Functional Ecology of Plants, 2015, 210, 31-39.	1.2	40
31	Species distribution, genetic diversity and barcoding in the duckweed family (Lemnaceae). Hydrobiologia, 2015, 743, 75-87.	2.0	46
32	The clonal dependence of turion formation in the duckweed <i>Spirodela polyrhiza</i> —an ecogeographical approach. Physiologia Plantarum, 2014, 150, 46-54.	5.2	41
33	Lowâ€molecular weight carbohydrates modulate dormancy and are required for postâ€germination growth in turions of <i>Spirodela polyrhiza</i> . Plant Biology, 2013, 15, 284-291.	3.8	11
34	Genetic characterization and barcoding of taxa in the genus Wolffia Horkel ex Schleid. (Lemnaceae) as revealed by two plastidic markers and amplified fragment length polymorphism (AFLP). Planta, 2013, 237, 1-13.	3.2	49
35	Influence of salinity and high temperature on turion formation in the duckweed Spirodela polyrhiza. Aquatic Botany, 2012, 97, 69-72.	1.6	11
36	Wasserlinsen als Nutzpflanzen. Biologie in Unserer Zeit, 2012, 42, 181-187.	0.2	3

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37	Induction of frond abscission by metals and other toxic compounds in Lemna minor. Aquatic Toxicology, 2011, 101, 261-265.	4.0	27
38	Light-Induced Degradation of Starch Granules in Turions of Spirodela polyrhiza Studied by Electron Microscopy. Plant and Cell Physiology, 2011, 52, 384-391.	3.1	22
39	Genetic structure of the genus Lemna L. (Lemnaceae) as revealed by amplified fragment length polymorphism. Planta, 2010, 232, 609-619.	3.2	66
40	What are "heavy metals―in Plant Sciences?. Acta Physiologiae Plantarum, 2010, 32, 615-619.	2.1	77
41	Turion formation in <i>Spirodela polyrhiza</i> : The environmental signals that induce the developmental process in nature. Physiologia Plantarum, 2010, 138, 312-320.	5.2	31
42	Definition of "Heavy Metals―and Their Role in Biological Systems. Soil Biology, 2010, , 19-29.	0.8	98
43	Lightâ€induced degradation of storage starch in turions of <i>Spirodela polyrhiza</i> depends on nitrate. Plant, Cell and Environment, 2008, 31, 1460-1469.	5.7	21
44	Modification of chromate toxicity by sulphate in duckweeds (Lemnaceae). Aquatic Toxicology, 2008, 89, 167-171.	4.0	31
45	Growth rate based dose–response relationships and EC-values of ten heavy metals using the duckweed growth inhibition test (ISO 20079) with Lemna minor L. clone St. Journal of Plant Physiology, 2007, 164, 1656-1664.	3.5	150
46	Light-induced Starch Degradation in Non-dormant Turions of Spirodela polyrhiza¶. Photochemistry and Photobiology, 2007, 73, 77-82.	2.5	2
47	The binding of α-amylase to starch plays a decisive role in the initiation of storage starch degradation in turions of Spirodela polyrhiza. Physiologia Plantarum, 2006, 129, 334-341.	5.2	10
48	Tomato seed germination: regulation of different response modes by phytochrome B2 and phytochrome A. Plant, Cell and Environment, 2006, 29, 701-709.	5.7	31
49	Light Induces Phosphorylation of Glucan Water Dikinase, Which Precedes Starch Degradation in Turions of the Duckweed Spirodela polyrhiza. Plant Physiology, 2004, 135, 121-128.	4.8	20
50	Are NADP-dependent isocitrate dehydrogenases and ferredoxin-dependent glutamate synthase co-regulated by the same photoreceptors?. Planta, 2004, 218, 775-783.	3.2	4
51	Multiple Effects of Chromate on Spirodela polyrhiza: Electron Microscopy and Biochemical Investigations. Plant Biology, 2003, 5, 315-323.	3.8	60
52	No photoperiodoc control of the formation of turions in eight clones ofSpirodela polyrhiza. Journal of Plant Physiology, 2003, 160, 1329-1334.	3.5	12
53	Cytosolic and chloroplastic NADP-dependent isocitrate dehydrogenases in Spirodela polyrhiza. I. Regulation of activity by metabolitesin vitro. Journal of Plant Physiology, 2002, 159, 231-237.	3.5	7
54	Cytosolic and chloroplastic NADP-dependent isocitrate dehydrogenases in Spirodela polyrhiza . II. Regulation of enzyme capacity. Journal of Plant Physiology, 2002, 159, 239-244.	3.5	4

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55	Association of α-amylase and the R1 protein with starch granules precedes the initiation of net starch degradation in turions of Spirodela polyrhiza. Physiologia Plantarum, 2002, 114, 2-12.	5.2	20

56 Co-action of temperature and phosphate in inducing turion formation in Spirodela polyrhiza (Great) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5

57	Clonal Differences in the Formation of Turions are Independent of the Specific Turion-inducing Signal inSpirodela polyrhiza(Great Duckweed). Plant Biology, 2002, 4, 688-693.	3.8	12
58	Light Regulation of Nitrate Reductase in Higher Plants: Which Photoreceptors are Involved?. Plant Biology, 2001, 3, 455-465.	3.8	80
59	Light-induced Starch Degradation in Non-dormant Turions of Spirodela polyrhiza¶. Photochemistry and Photobiology, 2001, 73, 77.	2.5	22
60	Phytochrome and post-translational regulation of nitrate reductase in higher plants. Plant Science, 2000, 159, 51-56.	3.6	27
61	Light-induced Germination and Endogenous Ion Currents in Turions of Spirodela polyrhiza. Journal of Plant Physiology, 2000, 156, 684-688.	3.5	0
62	Ion antagonism in phytochrome-mediated calcium-dependent germination of turions of Spirodela polyrhiza (L.) Schleiden. Planta, 1999, 208, 583-587.	3.2	10
63	Different Regulation of β-amylase and Starch Phosphorylase by Light in Dormant and Non-Dormant Turions of Spirodela polyrhiza. Journal of Plant Physiology, 1999, 154, 37-45.	3.5	6
64	Phytochrome-regulated Starch Degradation in Germinating Turions of Spirodela polyrhiza. Photochemistry and Photobiology, 1997, 66, 124-127.	2.5	20
65	Regulation of transcript level and nitrite reductase activity by phytochrome and nitrate in turions of Spirodela polyrhiza. Physiologia Plantarum, 1995, 93, 272-278.	5.2	7
66	Regulation of transcript level and nitrite reductase activity by phytochrome and nitrate in turions of Spirodela polyrhiza. Physiologia Plantarum, 1995, 93, 272-278.	5.2	6
67	Influence of Nickel on the Life Cycle of the Duckweed Spirodela polyrhiza (L.) Schleiden. Journal of Plant Physiology, 1993, 142, 208-213.	3.5	16
68	Photophysiology of turion germination in Spirodela polyrhiza (L.) schleiden. XI. Structural changes during red light induced responses. Journal of Plant Physiology, 1993, 141, 583-588.	3.5	18