Thomas Wichard

List of Publications by Year
in descending order

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88	4,424	94433	110387
papers	citations	37 h-index	64 g-index

96	96	96	3622
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	From model organism to application: Bacteria-induced growth and development of the green seaweed Ulva and the potential of microbe leveraging in algal aquaculture. Seminars in Cell and Developmental Biology, 2023, 134, 69-78.	5.0	29
2	Effects of Reversal of Water Flow in an Arctic Floodplain River on Fluvial Emissions of CO₂ and CH₄. Journal of Geophysical Research G: Biogeosciences, 2022, 127, e2021JG006485.	3.0	9
3	Transcriptional dynamics of gametogenesis in the green seaweed Ulva mutabilis identifies an RWP-RK transcription factor linked to reproduction. BMC Plant Biology, 2022, 22, 19.	3.6	7
4	The APAF1_C/WD40 repeat domain-encoding gene from the sea lettuce Ulva mutabilis sheds light on the evolution of NB-ARC domain-containing proteins in green plants. Planta, 2022, 255, 76.	3.2	5
5	Modeling the growth and sporulation dynamics of the macroalga <i>Ulva</i> in mixed-age populations in cultivation and the formation of green tides. Biogeosciences, 2022, 19, 2263-2271.	3.3	3
6	Metabolite profiling reveals insights into the species-dependent cold stress response of the green seaweed holobiont Ulva (Chlorophyta). Environmental and Experimental Botany, 2022, 200, 104913.	4.2	8
7	Flow cytometric measurements as a proxy for sporulation intensity in the cultured macroalga Ulva (Chlorophyta). Botanica Marina, 2021, 64, 83-92.	1.2	5
8	Frankobactin Metallophores Produced by Nitrogen-Fixing Frankia Actinobacteria Function in Toxic Metal Sequestration. Journal of Natural Products, 2021, 84, 1216-1225.	3.0	8
9	A new glance at the chemosphere of macroalgalâ€“bacterial interactions: In situ profiling of metabolites in symbiosis by mass spectrometry. Beilstein Journal of Organic Chemistry, 2021, 17, 1313-1322.	2.2	9
10	Screening and verification of extranuclear genetic markers in green tide algae from the Yellow Sea. PLoS ONE, 2021, 16, e0250968.	2.5	11
11	Bisphenol A: Quantification in Complex Matrices and Removal by Anaerobic Sludges. Pollutants, 2021, 1, 194-206.	2.1	4
12	Rhizobactin B is the preferred siderophore by a novel Pseudomonas isolate to obtain iron from dissolved organic matter in peatlands. BioMetals, 2020, 33, 415-433.	4.1	13
13	Iron is not everything: unexpected complex metabolic responses between iron-cycling microorganisms. ISME Journal, 2020, 14, 2675-2690.	9.8	14
14	Cultivating the Macroalgal Holobiont: Effects of Integrated Multi-Trophic Aquaculture on the Microbiome of Ulva rigida (Chlorophyta). Frontiers in Marine Science, 2020, 7, .	2.5	61
15	The sorption behaviour of amine micropollutants on polyethylene microplastics â€“ impact of aging and interactions with green seaweed. Environmental Sciences: Processes and Impacts, 2020, 22, 1678-1687.	3.5	14
16	Macroalgalâ€“bacterial interactions: identification and role of thallusin in morphogenesis of the seaweed Ulva (Chlorophyta). Journal of Experimental Botany, 2020, 71, 3340-3349.	4.8	56
17	Engineering bacteria-seaweed symbioses for modulating the photosynthate content of Ulva (Chlorophyta): Significant for the feedstock of bioethanol production. Algal Research, 2020, 49, 101945.	4.6	22
18	Genome Sequence of Frankia sp. Strain CH37, a Metallophore-Producing, Nitrogen-Fixing Actinobacterium Isolated from the Sea Buckthorn, Hippophae rhamnoides (Elaeagnaceae). Microbiology Resource Announcements, 2020, 9, .	0.6	4

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19	Microbiome-Dependent Adaptation of Seaweeds Under Environmental Stresses: A Perspective. Frontiers in Marine Science, 2020, 7, .	2.5	33
20	Iron-organic matter complexes accelerate microbial iron cycling in an iron-rich fen. Science of the Total Environment, 2019, 646, 972-988.	8.0	52
21	Using chemical language to shape future marine health. Frontiers in Ecology and the Environment, 2019, 17, 530-537.	4.0	33
22	Metallophore profiling of nitrogen-fixing Frankia spp. to understand metal management in the rhizosphere of actinorhizal plants. Metallomics, 2019, 11, 810-821.	2.4	22
23	Conspecificity of the model organism Ulva mutabilis and Ulva compressa (Ulvophyceae,) Tj ETQq1 1 0.784314 rgBT /Overl	2.3	30
24	Algae induce siderophore biosynthesis in the freshwater bacterium Cupriavidus necator H16. BioMetals, 2019, 32, 77-88.	4.1	11
25	Analysis of algal growth- and morphogenesis- promoting factors in an integrated multi-trophic aquaculture system for farming Ulva spp.. Aquaculture Environment Interactions, 2019, 11, 375-391.	1.8	30
26	DeltaMS: a tool to track isotopologues in GC- and LC-MS data. Metabolomics, 2018, 14, 41.	3.0	18
27	Macroalgalâ€“bacterial interactions: Role of dimethylsulfoniopropionate in microbial gardening by Ulva (Chlorophyta). Molecular Ecology, 2018, 27, 1808-1819.	3.9	101
28	Insights into the Evolution of Multicellularity from the Sea Lettuce Genome. Current Biology, 2018, 28, 2921-2933.e5.	3.9	134
29	Gramibactin is a bacterial siderophore with a diazeniumdiolate ligand system. Nature Chemical Biology, 2018, 14, 841-843.	8.0	73
30	Role of Chemical Mediators in Aquatic Interactions across the Prokaryoteâ€“Eukaryote Boundary. Journal of Chemical Ecology, 2018, 44, 1008-1021.	1.8	61
31	Metabolomics of intra- and extracellular metabolites from micro- and macroalgae using GCâ€“MS and LCâ€“MS. , 2018, , 279-300.		3
32	Polyethylene glycol-mediated transformation in the green macroalga Ulva mutabilis (Chlorophyta). , 2018, , 469-483.		5
33	Purification of sporulation and swarming inhibitors from Ulva. , 2018, , 139-157.		8
34	Preparation of axenic cultures in Ulva (Chlorophyta). , 2018, , 159-171.		10
35	Morphogenesis of Ulva mutabilis (Chlorophyta) induced by Maribacter species (Bacteroidetes,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.2	30
36	Cell structure and microtubule organisation during gametogenesis of Ulva mutabilis FÃ¸yn (Chlorophyta). Botanica Marina, 2017, 60, .	1.2	13

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37	In situ monitoring of molecular changes during cell differentiation processes in marine macroalgae through mass spectrometric imaging. Analytical and Bioanalytical Chemistry, 2017, 409, 4893-4903.	3.7	17
38	Phycomorph: macroalgal development and morphogenesis. Botanica Marina, 2017, 60, .	1.2	2
39	A fast and direct liquid chromatographyâ€mass spectrometry method to detect and quantify polyunsaturated aldehydes and polar oxylipins in diatoms. Limnology and Oceanography: Methods, 2017, 15, 70-79.	2.0	4
40	Was den Meersalat in Form bringt. Nachrichten Aus Der Chemie, 2017, 65, 870-873.	0.0	1
41	Bacteria-induced morphogenesis of Ulva intestinalis and Ulva mutabilis (Chlorophyta): a contribution to the lottery theory. FEMS Microbiology Ecology, 2017, 93, .	2.7	66
42	Furthering knowledge of seaweed growth and development to facilitate sustainable aquaculture. New Phytologist, 2017, 216, 967-975.	7.3	64
43	Offshore macroalgae biomass for bioenergy production: Environmental aspects, technological achievements and challenges. Renewable and Sustainable Energy Reviews, 2017, 75, 35-45.	16.4	149
44	Time Course Exo-Metabolomic Profiling in the Green Marine Macroalga Ulva (Chlorophyta) for Identification of Growth Phase-Dependent Biomarkers. Marine Drugs, 2017, 15, 14.	4.6	42
45	Identification of Metallophores and Organic Ligands in the Chemosphere of the Marine Macroalga Ulva (Chlorophyta) and at Land-Sea Interfaces. Frontiers in Marine Science, 2016, 3, .	2.5	25
46	Effect of organic matter on nitrogenase metal cofactors homeostasis in <scp>A</scp>zotobacter vinelandii under diazotrophic conditions. Environmental Microbiology Reports, 2016, 8, 76-84.	2.4	17
47	Macroalgal Morphogenesis Induced by Waterborne Compounds and Bacteria in Coastal Seawater. PLoS ONE, 2016, 11, e0146307.	2.5	85
48	Transformation of Ulva mutabilis (Chlorophyta) by vector plasmids integrating into the genome. Journal of Phycology, 2015, 51, 963-979.	2.3	43
49	Regulation of gametogenesis and zoosporogenesis in Ulva linza (Chlorophyta): comparison with Ulva mutabilis and potential for laboratory culture. Frontiers in Plant Science, 2015, 6, 15.	3.6	57
50	Impact of elevated CO2 on metal homeostasis and the actinorhizal symbiosis in early successional alder shrubs. Environmental and Experimental Botany, 2015, 109, 168-176.	4.2	9
51	The green seaweed Ulva: a model system to study morphogenesis. Frontiers in Plant Science, 2015, 6, 72.	3.6	173
52	Exploring bacteria-induced growth and morphogenesis in the green macroalga order Ulvales (Chlorophyta). Frontiers in Plant Science, 2015, 6, 86.	3.6	141
53	Phytoplankton Cell Lysis Associated with Polyunsaturated Aldehyde Release in the Northern Adriatic Sea. PLoS ONE, 2014, 9, e85947.	2.5	42
54	Identification of the Hydroxamate Siderophore Ferricrocin in Cladosporium cladosporioides. Natural Product Communications, 2014, 9, 1934578X1400900.	0.5	5

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55	Metallophore mapping in complex matrices by metal isotope coded profiling of organic ligands. Analyst, The, 2014, 139, 6096-6099.	3.5	30
56	Prevalence and mechanism of polyunsaturated aldehydes production in the green tide forming macroalgal genus Ulva (Ulvales, Chlorophyta). Chemistry and Physics of Lipids, 2014, 183, 100-109.	3.2	37
57	Identification of the hydroxamate siderophore ferricrocin in Cladosporium cladosporioides. Natural Product Communications, 2014, 9, 539-40.	0.5	4
58	Direct quantification of bacterial molybdenum and iron metallophores with ultra-high-performance liquid chromatography coupled to time-of-flight mass spectrometry. Journal of Chromatography A, 2013, 1298, 50-60.	3.7	31
59	Growth and Thallus Morphogenesis of Ulva mutabilis (Chlorophyta) Depends on A Combination of Two Bacterial Species Excreting Regulatory Factors. Journal of Phycology, 2012, 48, 1433-1447.	2.3	180
60	Essential metals for nitrogen fixation in a freeâ€living N₂â€fixing bacterium: chelation, homeostasis and high use efficiency. Environmental Microbiology, 2011, 13, 1395-1411.	3.8	93
61	GAMETOGENESIS AND GAMETE RELEASE OFULVA MUTABILISANDULVA LACTUCA(CHLOROPHYTA): REGULATORY EFFECTS AND CHEMICAL CHARACTERIZATION OF THE â€œSWARMING INHIBITORâ€• Journal of Phycology, 2010, 46, 248-259.	2.3	72
62	Culture conditions affect fatty acid content along with wound-activated production of polyunsaturated aldehydes in Thalassiosira rotula (Coscinodiscophyceae). Nova Hedwigia, 2010, 136, 231-248.	0.2	7
63	Multiple roles of siderophores in free-living nitrogen-fixing bacteria. BioMetals, 2009, 22, 573-581.	4.1	131
64	Storage and bioavailability of molybdenum in soils increased by organic matter complexation. Nature Geoscience, 2009, 2, 625-629.	12.9	176
65	Role of the Siderophore Azotobactin in the Bacterial Acquisition of Nitrogenase Metal Cofactors. Environmental Science & Technology, 2009, 43, 7218-7224.	10.0	56
66	â€œGoodâ€•and â€œbadâ€•diatoms: development, growth and juvenile mortality of the copepod Temora longicornis on diatom diets. Marine Biology, 2008, 154, 719-734.	1.5	39
67	Influence of diatoms on copepod reproduction. II. Uncorrelated effects of diatom-derived Î±,Î²,Î³,Î´-unsaturated aldehydes and polyunsaturated fatty acids on Calanus helgolandicus in the field. Progress in Oceanography, 2008, 77, 30-44.	3.2	48
68	Uptake of molybdenum and vanadium byÂaÂnitrogen-fixing soil bacterium usingÂsiderophores. Nature Geoscience, 2008, 1, 243-246.	12.9	137
69	Catechol Siderophores Control Tungsten Uptake and Toxicity in the Nitrogen-Fixing Bacterium Azotobacter vinelandii. Environmental Science & Technology, 2008, 42, 2408-2413.	10.0	44
70	Vanadium Requirements and Uptake Kinetics in the Dinitrogen-Fixing Bacterium Azotobacter vinelandii. Applied and Environmental Microbiology, 2008, 74, 1478-1484.	3.1	28
71	Lipid and Fatty Acid Composition of Diatoms Revisited: Rapid Wound-Activated Change of Food Quality Parameters Influences Herbivorous Copepod Reproductive Success. ChemBioChem, 2007, 8, 1146-1153.	2.6	86
72	Age and nutrient limitation enhance polyunsaturated aldehyde production in marine diatoms. Phytochemistry, 2007, 68, 2059-2067.	2.9	125

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73	Collapse of Calanus chilensis reproduction in a marine environment with high diatom concentration. Journal of Experimental Marine Biology and Ecology, 2007, 352, 187-199.	1.5	36
74	Influence of diatoms on copepod reproduction. III. Consequences of abnormal oocyte maturation on reproductive factors in Calanus helgolandicus. Marine Biology, 2007, 152, 415-428.	1.5	30
75	Formation of Halogenated Medium Chain Hydrocarbons by a Lipoxygenase/Hydroperoxide Halolyase-Mediated Transformation in Planktonic Microalgae. Journal of the American Chemical Society, 2006, 128, 7114-7115.	13.7	43
76	Biosynthesis of C9-aldehydes in the moss Physcomitrella patensâ˜†. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2006, 1761, 301-312.	2.4	54
77	Influence of diatoms on copepod reproduction. I. Field and laboratory observations related to Calanus helgolandicus egg production. Marine Ecology - Progress Series, 2006, 308, 129-142.	1.9	33
78	Life-history responses of Daphnia pulicaria to diets containing freshwater diatoms: Effects of nutritional quality versus polyunsaturated aldehydes. Limnology and Oceanography, 2005, 50, 449-454.	3.1	37
79	Determination and quantification of Î±,Î²,Î³,Î´-unsaturated aldehydes as pentafluorobenzyl-oxime derivates in diatom cultures and natural phytoplankton populations: application in marine field studies. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2005, 814, 155-161.	2.3	90
80	Winter-spring phytoplankton blooms in Dabob Bay, Washington. Progress in Oceanography, 2005, 67, 286-313.	3.2	38
81	Unprecedented Lipoxygenase/Hydroperoxide Lyase Pathways in the MossPhyscomitrella patens. Angewandte Chemie - International Edition, 2005, 44, 158-161.	13.8	49
82	Survey of the Chemical Defence Potential of Diatoms: Screening of Fifty Species for Î±,Î²,Î³,Î´-unsaturated aldehydes. Journal of Chemical Ecology, 2005, 31, 949-958.	1.8	158
83	A Multifunctional Lipoxygenase with Fatty Acid Hydroperoxide Cleaving Activity from the Moss Physcomitrella patens. Journal of Biological Chemistry, 2005, 280, 7588-7596.	3.4	89
84	Colloquium on diatom-copepod interactions. Marine Ecology - Progress Series, 2005, 286, 293-305.	1.9	68
85	Cytotoxicity of diatom-derived oxylipins in organisms belonging to different phyla. Journal of Experimental Biology, 2004, 207, 2935-2946.	1.7	81
86	Aldehyde suppression of copepod recruitment in blooms of a ubiquitous planktonic diatom. Nature, 2004, 429, 403-407.	27.8	373
87	Short synthesis of labeled and unlabeled 6Z,9Z,12Z,15-hexadecatetraenoic acid as metabolic probes for biosynthetic studies on diatoms. Chemistry and Physics of Lipids, 2004, 131, 159-166.	3.2	22
88	Identification of the new prenyltransferase Ubi-297 from marine bacteria and elucidation of its substrate specificity. Beilstein Journal of Organic Chemistry, 0, 18, 722-731.	2.2	0