

Kirsten Heimann

List of Publications by Year in descending order

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111
papers

4,598
citations

101543

36
h-index

110387

64
g-index

118
all docs

118
docs citations

118
times ranked

6069
citing authors

#	ARTICLE	IF	CITATIONS
1	A photosynthetic alveolate closely related to apicomplexan parasites. <i>Nature</i> , 2008, 451, 959-963.	27.8	437
2	Growth, lipid content, productivity, and fatty acid composition of tropical microalgae for scale-up production. <i>Biotechnology and Bioengineering</i> , 2010, 107, 245-257.	3.3	324
3	Microalgal Species Selection for Biodiesel Production Based on Fuel Properties Derived from Fatty Acid Profiles. <i>Energies</i> , 2013, 6, 5676-5702.	3.1	254
4	Substratum adhesion and gliding in a diatom are mediated by extracellular proteoglycans. <i>Planta</i> , 1997, 203, 213-221.	3.2	144
5	Additive toxicity of herbicide mixtures and comparative sensitivity of tropical benthic microalgae. <i>Marine Pollution Bulletin</i> , 2010, 60, 1978-1987.	5.0	134
6	Combustion analysis of microalgae methyl ester in a common rail direct injection diesel engine. <i>Fuel</i> , 2015, 143, 351-360.	6.4	122
7	Comparative effects of herbicides on photosynthesis and growth of tropical estuarine microalgae. <i>Marine Pollution Bulletin</i> , 2008, 56, 1545-1552.	5.0	118
8	Microalgal biofilms for biomass production. <i>Journal of Applied Phycology</i> , 2015, 27, 1793-1804.	2.8	115
9	Technoeconomic analysis of renewable aviation fuel from microalgae, <i>Pongamia pinnata</i> , and sugarcane. <i>Biofuels, Bioproducts and Biorefining</i> , 2013, 7, 416-428.	3.7	112
10	Specific Isoforms of Actin-binding Proteins on Distinct Populations of Golgi-derived Vesicles. <i>Journal of Biological Chemistry</i> , 1999, 274, 10743-10750.	3.4	106
11	Development of the flagellar apparatus during the cell cycle in unicellular algae. <i>Protoplasma</i> , 1991, 164, 23-37.	2.1	94
12	Comprehensive guide to acetyl-carboxylases in algae. <i>Critical Reviews in Biotechnology</i> , 2013, 33, 49-65.	9.0	92
13	Review of Sustainable Methane Mitigation and Biopolymer Production. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 1579-1610.	12.8	88
14	Targeting of a Tropomyosin Isoform to Short Microfilaments Associated with the Golgi Complex. <i>Molecular Biology of the Cell</i> , 2004, 15, 268-280.	2.1	87
15	Microalgae biodiesel: Current status and future needs for engine performance and emissions. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 1160-1170.	16.4	84
16	Sustainable bio-plastic production through landfill methane recycling. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 71, 555-562.	16.4	83
17	Review of the recombinant human interferon gamma as an immunotherapeutic: Impacts of production platforms and glycosylation. <i>Journal of Biotechnology</i> , 2016, 240, 48-60.	3.8	75
18	Critical evaluation of process parameters for direct biodiesel production from diverse feedstock. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 123, 109762.	16.4	75

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19	Influence of Fatty Acid Structure on Fuel Properties of Algae Derived Biodiesel. <i>Procedia Engineering</i> , 2013, 56, 591-596.	1.2	72
20	The production of clonal and axenic cultures of microalgae using fluorescence-activated cell sorting. <i>European Journal of Phycology</i> , 1993, 28, 93-97.	2.0	68
21	Mechanism of Cytotoxicity and Cellular Uptake of Lipophilic Inert Dinuclear Polypyridylruthenium(II) Complexes. <i>ChemMedChem</i> , 2011, 6, 848-858.	3.2	66
22	Novel approaches to microalgal and cyanobacterial cultivation for bioenergy and biofuel production. <i>Current Opinion in Biotechnology</i> , 2016, 38, 183-189.	6.6	65
23	Vesicle budding on Golgi membranes: regulation by G proteins and myosin motors. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998, 1404, 161-171.	4.1	59
24	Salinity Tolerance of <i>Picochlorum atomus</i> and the Use of Salinity for Contamination Control by the Freshwater Cyanobacterium <i>Pseudanabaena limnetica</i> . <i>PLoS ONE</i> , 2013, 8, e63569.	2.5	59
25	Ocean urea fertilization for carbon credits poses high ecological risks. <i>Marine Pollution Bulletin</i> , 2008, 56, 1049-1056.	5.0	58
26	Pesticide contamination and phytotoxicity of sediment interstitial water to tropical benthic microalgae. <i>Water Research</i> , 2013, 47, 5211-5221.	11.3	54
27	The GRIP Domain is a Specific Targeting Sequence for a Population of trans-Golgi Network Derived Tubulo-Vesicular Carriers. <i>Traffic</i> , 2001, 2, 336-344.	2.7	52
28	RNA and DNA binding of inert oligonuclear ruthenium(II) complexes in live eukaryotic cells. <i>Dalton Transactions</i> , 2015, 44, 3594-3603.	3.3	52
29	Chronic herbicide exposures affect the sensitivity and community structure of tropical benthic microalgae. <i>Marine Pollution Bulletin</i> , 2012, 65, 363-372.	5.0	49
30	Salinity tolerance of four freshwater microalgal species and the effects of salinity and nutrient limitation on biochemical profiles. <i>Journal of Applied Phycology</i> , 2016, 28, 861-876.	2.8	47
31	GAIP, a G13-binding protein, is associated with Golgi-derived vesicles and protein trafficking. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 276, C497-C506.	4.6	44
32	Negative regulators of cell death pathways in cancer: perspective on biomarkers and targeted therapies. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2018, 23, 93-112.	4.9	44
33	The flagellar developmental cycle in algae: flagellar transformation in <i>Cyanophora paradoxa</i> (Glaucocystophyceae). <i>Protoplasma</i> , 1989, 148, 106-110.	2.1	42
34	Selective mitochondrial accumulation of cytotoxic dinuclear polypyridyl ruthenium(II) complexes. <i>Metallomics</i> , 2010, 2, 393.	2.4	42
35	Effect of temperature and moisture on high pressure lipid/oil extraction from microalgae. <i>Energy Conversion and Management</i> , 2014, 88, 307-316.	9.2	41
36	Assessment of microalga biofilms for simultaneous remediation and biofuel generation in mine tailings water. <i>Bioresource Technology</i> , 2017, 234, 327-335.	9.6	40

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37	Particle emissions from microalgae biodiesel combustion and their relative oxidative potential. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 1601-1610.	3.5	36
38	First report of microcystin-producing <i>Fischerella</i> sp. (Stigonematales, Cyanobacteria) in tropical Australia. <i>Toxicon</i> , 2014, 88, 62-66.	1.6	33
39	Bio-Refining of Carbohydrate-Rich Food Waste for Biofuels. <i>Energies</i> , 2015, 8, 6350-6364.	3.1	33
40	Microalgal Classification. , 2015, , 25-41.		33
41	Role of copper and iron in methane oxidation and bacterial biopolymer accumulation. <i>Engineering in Life Sciences</i> , 2015, 15, 387-399.	3.6	32
42	The flagellar developmental cycle in algae. <i>Protoplasma</i> , 1989, 153, 14-23.	2.1	31
43	Investigation of the effects of the fatty acid profile on fuel properties using a multi-criteria decision analysis. <i>Energy Conversion and Management</i> , 2015, 98, 340-347.	9.2	31
44	The Diversity of <i>Coolia</i> spp. (Dinophyceae Ostreopsidaceae) in the Central Great Barrier Reef Region. <i>PLoS ONE</i> , 2013, 8, e79278.	2.5	30
45	Hydrolysis treatments of fruit and vegetable waste for production of biofuel precursors. <i>Bioresource Technology</i> , 2016, 217, 100-103.	9.6	30
46	Effects of temperature, salinity and composition of the dinoflagellate assemblage on the growth of <i>Gambierdiscus carpenteri</i> isolated from the Great Barrier Reef. <i>Harmful Algae</i> , 2017, 65, 52-60.	4.8	28
47	Protein Recovery from Underutilised Marine Bioresources for Product Development with Nutraceutical and Pharmaceutical Bioactivities. <i>Marine Drugs</i> , 2020, 18, 391.	4.6	28
48	Effect of CH ₄ /O ₂ ratio on fatty acid profile and polyhydroxybutyrate content in a heterotrophic-methanotrophic consortium. <i>Chemosphere</i> , 2015, 141, 235-242.	8.2	27
49	Vortex fluidic mediated direct transesterification of wet microalgae biomass to biodiesel. <i>Bioresource Technology</i> , 2018, 266, 488-497.	9.6	27
50	The Effects of Exposure to Near-Future Levels of Ocean Acidification on Activity and Byssus Production of the Akoya Pearl Oyster, <i>Pinctada fucata</i> . <i>Journal of Shellfish Research</i> , 2011, 30, 85-88.	0.9	26
51	Molecular phylogenetics and morphology of <i>Gambierdiscus yasumotoi</i> from tropical eastern Australia. <i>Harmful Algae</i> , 2014, 39, 242-252.	4.8	26
52	Biopolymers made from methane in bioreactors. <i>Engineering in Life Sciences</i> , 2015, 15, 689-699.	3.6	25
53	Effects of growth phase and nitrogen starvation on expression of fatty acid desaturases and fatty acid composition of <i>Isochrysis aff. galbana</i> (TISO). <i>Gene</i> , 2014, 545, 36-44.	2.2	24
54	Dinuclear ruthenium(II) complexes containing one inert metal centre and one coordinatively-labile metal centre: syntheses and biological activities. <i>Dalton Transactions</i> , 2016, 45, 4017-4029.	3.3	24

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55	Auxin and cytoskeletal organization in algae. <i>Cell Biology International</i> , 2008, 32, 542-545.	3.0	22
56	The effect of nitrogen limitation on acetyl-CoA carboxylase expression and fatty acid content in <i>Chromera velia</i> and <i>Isochrysis aff. galbana</i> (TISO). <i>Gene</i> , 2014, 543, 204-211.	2.2	22
57	Is <i>Pichia pastoris</i> a realistic platform for industrial production of recombinant human interferon gamma?. <i>Biologicals</i> , 2017, 45, 52-60.	1.4	21
58	Effects of salinity, pH and temperature on the re-establishment of bioluminescence and copper or SDS toxicity in the marine dinoflagellate <i>Pyrocystis lunula</i> using bioluminescence as an endpoint. <i>Environmental Pollution</i> , 2003, 125, 267-275.	7.5	18
59	Nitrate-nitrite dynamics and phytoplankton growth: Formulation and experimental evaluation of a dynamic model. <i>Limnology and Oceanography</i> , 2012, 57, 1555-1571.	3.1	18
60	Influence of nutrients on oxidation of low level methane by mixed methanotrophic consortia. <i>Environmental Science and Pollution Research</i> , 2016, 23, 4346-4357.	5.3	18
61	Culture scale-up and immobilisation of a mixed methanotrophic consortium for methane remediation in pilot-scale bio-filters. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 474-482.	2.2	18
62	Improved therapeutic efficacy of mammalian expressed-recombinant interferon gamma against ovarian cancer cells. <i>Experimental Cell Research</i> , 2017, 359, 20-29.	2.6	18
63	Response of mixed methanotrophic consortia to different methane to oxygen ratios. <i>Waste Management</i> , 2017, 61, 220-228.	7.4	17
64	Commercial cultivation, industrial application, and potential halocarbon biosynthesis pathway of <i>Asparagopsis</i> sp.. <i>Algal Research</i> , 2021, 56, 102319.	4.6	16
65	EFFECTS OF METALS AND ORGANIC CONTAMINANTS ON THE RECOVERY OF BIOLUMINESCENCE IN THE MARINE DINOFLAGELLATE PYROCYSTIS LUNULA (DINOPHYCEAE)1. <i>Journal of Phycology</i> , 2002, 38, 482-492.	2.3	16
66	Benthic diatom community composition in three regions of the Great Barrier Reef, Australia. <i>Coral Reefs</i> , 2007, 26, 345-357.	2.2	15
67	First outdoor cultivation of the N ₂ -fixing cyanobacterium <i>Tolypothrix</i> sp. in low-cost suspension and biofilm systems in tropical Australia. <i>Journal of Applied Phycology</i> , 2015, 27, 1743-1753.	2.8	15
68	Sustainable water treatment in aquaculture - photolysis and photodynamic therapy for the inactivation of <i>Vibrio</i> species. <i>Aquaculture Research</i> , 2017, 48, 2954-2962.	1.8	15
69	Continuous flow biodiesel production from wet microalgae using a hybrid thin film microfluidic platform. <i>Chemical Communications</i> , 2018, 54, 12085-12088.	4.1	15
70	Oligonuclear polypyridylruthenium(II) complexes: selectivity between bacteria and eukaryotic cells. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 1547-1555.	3.0	14
71	Turbo thin film continuous flow production of biodiesel from fungal biomass. <i>Bioresource Technology</i> , 2019, 273, 431-438.	9.6	14
72	Hot water pretreatment-induced significant metabolite changes in the sea cucumber <i>Apostichopus japonicus</i> . <i>Food Chemistry</i> , 2020, 314, 126211.	8.2	14

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73	Bioproduct Potential of Outdoor Cultures of <i>Tolypothrix</i> sp.: Effect of Carbon Dioxide and Metal-Rich Wastewater. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 51.	4.1	13
74	Blooms of <i>Chrysocystis fragilis</i> on the Great Barrier Reef. <i>Coral Reefs</i> , 2004, 23, 514.	2.2	12
75	Recycling of food waste for fuel precursors using an integrated bio-refinery approach. <i>Bioresource Technology</i> , 2018, 248, 194-198.	9.6	12
76	Temperature-sensitive lyotropic liquid crystals as systems for transdermal drug delivery. <i>Journal of Molecular Liquids</i> , 2021, 326, 115310.	4.9	12
77	An experimentally validated nitrate-“ammonium”-phytoplankton model including effects of starvation length and ammonium inhibition on nitrate uptake. <i>Ecological Modelling</i> , 2015, 317, 30-40.	2.5	11
78	Biochemical Characterization of Plasma Membrane Vesicles of <i>Cyanophora paradoxa</i> *. <i>Botanica Acta</i> , 1997, 110, 401-410.	1.6	10
79	Biological processing of dinuclear ruthenium complexes in eukaryotic cells. <i>Molecular BioSystems</i> , 2016, 12, 3032-3045.	2.9	10
80	Light-Induced Ca ²⁺ Influx into Spinach Protoplasts. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1987, 42, 283-287.	1.4	9
81	Phylogenetic Analysis of Nucleus-Encoded Acetyl-CoA Carboxylases Targeted at the Cytosol and Plastid of Algae. <i>PLoS ONE</i> , 2015, 10, e0131099.	2.5	9
82	First use of the WAVE™, a disposable rocking bioreactor for enhanced bioproduct synthesis by N ₂ -fixing cyanobacteria. <i>Biotechnology and Bioengineering</i> , 2015, 112, 621-626.	3.3	9
83	Recycling of Solid Waste for Biofuels and Bio-chemicals. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2016, , .	1.1	9
84	Responses of mixed methanotrophic consortia to variable Cu ²⁺ /Fe ²⁺ ratios. <i>Journal of Environmental Management</i> , 2017, 197, 159-166.	7.8	9
85	Eukaryotic Cell Toxicity and HSA Binding of [Ru(Me ₄ phen)(bb ₇)] ²⁺ and the Effect of Encapsulation in Cucurbit[10]uril. <i>Frontiers in Chemistry</i> , 2018, 6, 595.	3.6	9
86	Editorial: Methane: A Bioresource for Fuel and Biomolecules. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	9
87	THE FLAGELLAR DEVELOPMENT CYCLE OF THE UNIFLAGELLATE PELAGOMONAS CALCEOLATA (PELAGOPHYCEAE)1. <i>Journal of Phycology</i> , 1995, 31, 577-583.	2.3	8
88	N ₂ -Fixing Cyanobacteria: Ecology and Biotechnological Applications. , 2015, , 501-515.		8
89	Ecology of the benthic mucilage-forming microalga <i>Chrysophaeum taylorii</i> in the W Mediterranean Sea: Substratum and depth preferences. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 161, 38-45.	2.1	8
90	Nutrient utilization traits vary systematically with intraspecific cell size plasticity. <i>Functional Ecology</i> , 2016, 30, 1745-1755.	3.6	8

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91	Food Waste Valorization by Microalgae. <i>Energy, Environment, and Sustainability</i> , 2018, , 319-342.	1.0	8
92	Effect of CO ₂ and metal-rich waste water on bioproduct potential of the diazotrophic freshwater cyanobacterium, <i>Tolypothrix</i> sp.. <i>Heliyon</i> , 2019, 5, e01549.	3.2	8
93	Pedicellariae of the crown-of-thorns sea star <i>Acanthaster planci</i> are not an effective defence against fouling. <i>Marine Ecology - Progress Series</i> , 2007, 340, 101-108.	1.9	8
94	Standard flow cytometry as a rapid and non-destructive proxy for cell nitrogen quota. <i>Journal of Applied Phycology</i> , 2016, 28, 1085-1095.	2.8	7
95	Involvement of actin and microtubules in regulation of bioluminescence and translocation of chloroplasts in the dinoflagellate <i>Pyrocystis lunula</i> . <i>Botanica Marina</i> , 2009, 52, 170-177.	1.2	6
96	Capacity of cationic and anionic porphyrins to inactivate the potential aquaculture pathogen <i>Vibrio campbellii</i> . <i>Aquaculture</i> , 2017, 473, 228-236.	3.5	6
97	Biodegradation and Bioconversion of Hydrocarbons. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2017, , .	1.1	6
98	The role of floating mucilage in the invasive spread of the benthic microalga <i>Chrysophaeum taylorii</i> . <i>Marine Ecology</i> , 2016, 37, 867-876.	1.1	5
99	Key Environmental Factors in the Management of Ciguatera. <i>Journal of Coastal Research</i> , 2016, 75, 1007-1011.	0.3	5
100	Biomass pre-treatments of the N ₂ -fixing cyanobacterium <i>Tolypothrix</i> for co-production of methane. <i>Chemosphere</i> , 2021, 283, 131246.	8.2	3
101	An efficient protein isolation process for use in <i>Limnospira maxima</i> : A biorefinery approach. <i>Journal of Food Composition and Analysis</i> , 2021, 104, 104173.	3.9	3
102	Sensitivity of live microalgal aquaculture feed to singlet oxygen-based photodynamic therapy. <i>Journal of Applied Phycology</i> , 2019, 31, 3593-3606.	2.8	2
103	Corrigendum to “Influence of fatty acid structure on fuel properties of algae derived biodiesel” [Procedia Engineering 56 (2013) 591–596]. <i>Procedia Engineering</i> , 2013, 56, 882-883.	1.2	1
104	Increased expression and secretion of recombinant hIFN γ through amino acid starvation-induced selective pressure on the adjacent HIS4 gene in <i>Pichia pastoris</i> . <i>Acta Facultatis Pharmaceuticae Universitatis Comeniana</i> , 2015, 62, 43-50.	0.2	1
105	Ciguatera. , 2015, , 547-558.		1
106	Improving dynamic phytoplankton reserve-utilization models with an indirect proxy for internal nitrogen. <i>Journal of Theoretical Biology</i> , 2016, 404, 1-9.	1.7	1
107	Development of the flagellar apparatus during the cell cycle in unicellular algae. , 1991, , 23-37.		1
108	Algal cell biology and genomics. <i>Botanica Marina</i> , 2009, 52, 93-94.	1.2	0

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109	Inside Cover: Mechanism of Cytotoxicity and Cellular Uptake of Lipophilic Inert Dinuclear Polypyridylruthenium(II) Complexes (ChemMedChem 5/2011). ChemMedChem, 2011, 6, 742-742.	3.2	0
110	10 Algal cell biology “important tools to understand metal and herbicide toxicity.”, 2012, , 191-210.		0
111	9 Dinoflagellate bioluminescence “a key concept for studying organelle movement.”, 2012, , 177-190.		0