

# 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	Temperature-sensitive lyotropic liquid crystals as systems for transdermal drug delivery. Journal of Molecular Liquids, 2021, 326, 115310.	4.9	12
2	Commercial cultivation, industrial application, and potential halocarbon biosynthesis pathway of Asparagopsis sp.. Algal Research, 2021, 56, 102319.	4.6	16
3	Biomass pre-treatments of the N2-fixing cyanobacterium Tolypothrix for co-production of methane. Chemosphere, 2021, 283, 131246.	8.2	3
4	An efficient protein isolation process for use in Limnospira maxima: A biorefinery approach. Journal of Food Composition and Analysis, 2021, 104, 104173.	3.9	3
5	Protein Recovery from Underutilised Marine Bioresources for Product Development with Nutraceutical and Pharmaceutical Bioactivities. Marine Drugs, 2020, 18, 391.	4.6	28
6	Editorial: Methane: A Bioresource for Fuel and Biomolecules. Frontiers in Environmental Science, 2020, 8, .	3.3	9
7	Bioproduct Potential of Outdoor Cultures of Tolypothrix sp.: Effect of Carbon Dioxide and Metal-Rich Wastewater. Frontiers in Bioengineering and Biotechnology, 2020, 8, 51.	4.1	13
8	Critical evaluation of process parameters for direct biodiesel production from diverse feedstock. Renewable and Sustainable Energy Reviews, 2020, 123, 109762.	16.4	75
9	Hot water pretreatment-induced significant metabolite changes in the sea cucumber Apostichopus japonicus. Food Chemistry, 2020, 314, 126211.	8.2	14
10	Sensitivity of live microalgal aquaculture feed to singlet oxygen-based photodynamic therapy. Journal of Applied Phycology, 2019, 31, 3593-3606.	2.8	2
11	Effect of CO2 and metal-rich waste water on bioproduct potential of the diazotrophic freshwater cyanobacterium, Tolypothrix sp.. Heliyon, 2019, 5, e01549.	3.2	8
12	Turbo thin film continuous flow production of biodiesel from fungal biomass. Bioresource Technology, 2019, 273, 431-438.	9.6	14
13	Negative regulators of cell death pathways in cancer: perspective on biomarkers and targeted therapies. Apoptosis: an International Journal on Programmed Cell Death, 2018, 23, 93-112.	4.9	44
14	Recycling of food waste for fuel precursors using an integrated bio-refinery approach. Bioresource Technology, 2018, 248, 194-198.	9.6	12
15	Food Waste Valorization by Microalgae. Energy, Environment, and Sustainability, 2018, , 319-342.	1.0	8
16	Continuous flow biodiesel production from wet microalgae using a hybrid thin film microfluidic platform. Chemical Communications, 2018, 54, 12085-12088.	4.1	15
17	Eukaryotic Cell Toxicity and HSA Binding of [Ru(Me4phen)(bb7)]2+ and the Effect of Encapsulation in Cucurbit[10]uril. Frontiers in Chemistry, 2018, 6, 595.	3.6	9
18	Vortex fluidic mediated direct transesterification of wet microalgae biomass to biodiesel. Bioresource Technology, 2018, 266, 488-497.	9.6	27

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19	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
20	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
21	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
22	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
23	Responses of mixed methanotrophic consortia to variable Cu <sup>2+</sup> /Fe <sup>2+</sup> ratios. <i>Journal of Environmental Management</i> , 2017, 197, 159-166.	7.8	9
24	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
25	Sustainable bio-plastic production through landfill methane recycling. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 71, 555-562.	16.4	83
26	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
27	Biodegradation and Bioconversion of Hydrocarbons. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2017, , .	1.1	6
28	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
29	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
30	Response of mixed methanotrophic consortia to different methane to oxygen ratios. <i>Waste Management</i> , 2017, 61, 220-228.	7.4	17
31	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
32	Key Environmental Factors in the Management of Ciguatera. <i>Journal of Coastal Research</i> , 2016, 75, 1007-1011.	0.3	5
33	Oligonuclear polypyridylruthenium(II) complexes: selectivity between bacteria and eukaryotic cells. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 1547-1555.	3.0	14
34	Biological processing of dinuclear ruthenium complexes in eukaryotic cells. <i>Molecular BioSystems</i> , 2016, 12, 3032-3045.	2.9	10
35	Recycling of Solid Waste for Biofuels and Bio-chemicals. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2016, , .	1.1	9
36	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

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37	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
38	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
39	Nutrient utilization traits vary systematically with intraspecific cell size plasticity. <i>Functional Ecology</i> , 2016, 30, 1745-1755.	3.6	8
40	Hydrolysis treatments of fruit and vegetable waste for production of biofuel precursors. <i>Bioresource Technology</i> , 2016, 217, 100-103.	9.6	30
41	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
42	Dinuclear ruthenium( $\text{II}$ ) 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
43	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
44	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
45	Increased expression and secretion of recombinant hIFN $\gamma$ through amino acid starvation-induced selective pressure on the adjacent HIS4 gene in <i>Pichia pastoris</i> . <i>Acta Facultatis Pharmaceuticae Universitatis Comenianae</i> , 2015, 62, 43-50.	0.2	1
46	Bio-Refining of Carbohydrate-Rich Food Waste for Biofuels. <i>Energies</i> , 2015, 8, 6350-6364.	3.1	33
47	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
48	Microalgal Classification. , 2015, , 25-41.		33
49	N <sub>2</sub> -Fixing Cyanobacteria: Ecology and Biotechnological Applications. , 2015, , 501-515.		8
50	Review of Sustainable Methane Mitigation and Biopolymer Production. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 1579-1610.	12.8	88
51	Microalgal biofilms for biomass production. <i>Journal of Applied Phycology</i> , 2015, 27, 1793-1804.	2.8	115
52	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
53	First use of the WAVE <sup>®</sup> , a disposable rocking bioreactor for enhanced bioproduct synthesis by N <sub>2</sub> -fixing cyanobacteria. <i>Biotechnology and Bioengineering</i> , 2015, 112, 621-626.	3.3	9
54	First outdoor cultivation of the N <sub>2</sub> -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

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55	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
56	Ciguatera. , 2015, , 547-558.		1
57	Biopolymers made from methane in bioreactors. <i>Engineering in Life Sciences</i> , 2015, 15, 689-699.	3.6	25
58	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
59	An experimentally validated nitrateâ€“ammoniumâ€“phytoplankton model including effects of starvation length and ammonium inhibition on nitrate uptake. <i>Ecological Modelling</i> , 2015, 317, 30-40.	2.5	11
60	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
61	Effect of CH <sub>4</sub> /O <sub>2</sub> ratio on fatty acid profile and polyhydroxybutyrate content in a heterotrophicâ€“methanotrophic consortium. <i>Chemosphere</i> , 2015, 141, 235-242.	8.2	27
62	Combustion analysis of microalgae methyl ester in a common rail direct injection diesel engine. <i>Fuel</i> , 2015, 143, 351-360.	6.4	122
63	RNA and DNA binding of inert oligonuclear ruthenium(<sc>ii</sc>) complexes in live eukaryotic cells. <i>Dalton Transactions</i> , 2015, 44, 3594-3603.	3.3	52
64	First report of microcystin-producing <i>Fischerella</i> sp. (Stigonematales, Cyanobacteria) in tropical Australia. <i>Toxicon</i> , 2014, 88, 62-66.	1.6	33
65	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
66	Molecular phylogenetics and morphology of <i>Gambierdiscus yasumotoi</i> from tropical eastern Australia. <i>Harmful Algae</i> , 2014, 39, 242-252.	4.8	26
67	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
68	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
69	Pesticide contamination and phytotoxicity of sediment interstitial water to tropical benthic microalgae. <i>Water Research</i> , 2013, 47, 5211-5221.	11.3	54
70	Influence of Fatty Acid Structure on Fuel Properties of Algae Derived Biodiesel. <i>Procedia Engineering</i> , 2013, 56, 591-596.	1.2	72
71	Corrigendum to â€“Influence of fatty acid structure on fuel properties of algae derived biodieselâ€™ [Procedia Engineering 56 (2013) 591â€“596]. <i>Procedia Engineering</i> , 2013, 56, 882-883.	1.2	1
72	Comprehensive guide to acetyl-carboxylases in algae. <i>Critical Reviews in Biotechnology</i> , 2013, 33, 49-65.	9.0	92

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73	Technoeconomic analysis of renewable aviation fuel from microalgae, <i>Pongamia pinnata</i>, and sugarcane. Biofuels, Bioproducts and Biorefining, 2013, 7, 416-428.	3.7	112
74	Microalgal Species Selection for Biodiesel Production Based on Fuel Properties Derived from Fatty Acid Profiles. Energies, 2013, 6, 5676-5702.	3.1	254
75	The Diversity of Coolia spp. (Dinophyceae Ostreopsidaceae) in the Central Great Barrier Reef Region. PLoS ONE, 2013, 8, e79278.	2.5	30
76	Salinity Tolerance of Picochlorum atomus and the Use of Salinity for Contamination Control by the Freshwater Cyanobacterium Pseudanabaena limnetica. PLoS ONE, 2013, 8, e63569.	2.5	59
77	Nitrate-nitrite dynamics and phytoplankton growth: Formulation and experimental evaluation of a dynamic model. Limnology and Oceanography, 2012, 57, 1555-1571.	3.1	18
78	10 Algal cell biology “important tools to understand metal and herbicide toxicity. , 2012, , 191-210.		0
79	Chronic herbicide exposures affect the sensitivity and community structure of tropical benthic microalgae. Marine Pollution Bulletin, 2012, 65, 363-372.	5.0	49
80	9 Dinoflagellate bioluminescence “a key concept for studying organelle movement. , 2012, , 177-190.		0
81	The Effects of Exposure to Near-Future Levels of Ocean Acidification on Activity and Byssus Production of the Akoya Pearl Oyster, Pinctada fucata. Journal of Shellfish Research, 2011, 30, 85-88.	0.9	26
82	Mechanism of Cytotoxicity and Cellular Uptake of Lipophilic Inert Dinuclear Polypyridylruthenium(II) Complexes. ChemMedChem, 2011, 6, 848-858.	3.2	66
83	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
84	Additive toxicity of herbicide mixtures and comparative sensitivity of tropical benthic microalgae. Marine Pollution Bulletin, 2010, 60, 1978-1987.	5.0	134
85	Growth, lipid content, productivity, and fatty acid composition of tropical microalgae for scale-up production. Biotechnology and Bioengineering, 2010, 107, 245-257.	3.3	324
86	Selective mitochondrial accumulation of cytotoxic dinuclear polypyridyl ruthenium(ii) complexes. Metallomics, 2010, 2, 393.	2.4	42
87	Involvement of actin and microtubules in regulation of bioluminescence and translocation of chloroplasts in the dinoflagellate <i>Pyrocystis lunula</i>. Botanica Marina, 2009, 52, 170-177.	1.2	6
88	Algal cell biology and genomics. Botanica Marina, 2009, 52, 93-94.	1.2	0
89	Auxin and cytoskeletal organization in algae. Cell Biology International, 2008, 32, 542-545.	3.0	22
90	A photosynthetic alveolate closely related to apicomplexan parasites. Nature, 2008, 451, 959-963.	27.8	437

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91	Ocean urea fertilization for carbon credits poses high ecological risks. Marine Pollution Bulletin, 2008, 56, 1049-1056.	5.0	58
92	Comparative effects of herbicides on photosynthesis and growth of tropical estuarine microalgae. Marine Pollution Bulletin, 2008, 56, 1545-1552.	5.0	118
93	Benthic diatom community composition in three regions of the Great Barrier Reef, Australia. Coral Reefs, 2007, 26, 345-357.	2.2	15
94	Pedicellariae of the crown-of-thorns sea star <i>Acanthaster planci</i> are not an effective defence against fouling. Marine Ecology - Progress Series, 2007, 340, 101-108.	1.9	8
95	Targeting of a Tropomyosin Isoform to Short Microfilaments Associated with the Golgi Complex. Molecular Biology of the Cell, 2004, 15, 268-280.	2.1	87
96	Blooms of <i>Chrysocystis fragilis</i> on the Great Barrier Reef. Coral Reefs, 2004, 23, 514.	2.2	12
97	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. Environmental Pollution, 2003, 125, 267-275.	7.5	18
98	EFFECTS OF METALS AND ORGANIC CONTAMINANTS ON THE RECOVERY OF BIOLUMINESCENCE IN THE MARINE DINOFLAGELLATE PYROCYSTIS LUNULA (DINOPHYCEAE)1. Journal of Phycology, 2002, 38, 482-492.	2.3	16
99	The GRIP Domain is a Specific Targeting Sequence for a Population of trans-Golgi Network Derived Tubulo-Vesicular Carriers. Traffic, 2001, 2, 336-344.	2.7	52
100	GAIP, a GÎ±i-3-binding protein, is associated with Golgi-derived vesicles and protein trafficking. American Journal of Physiology - Cell Physiology, 1999, 276, C497-C506.	4.6	44
101	Specific Isoforms of Actin-binding Proteins on Distinct Populations of Golgi-derived Vesicles. Journal of Biological Chemistry, 1999, 274, 10743-10750.	3.4	106
102	Vesicle budding on Golgi membranes: regulation by G proteins and myosin motors. Biochimica Et Biophysica Acta - Molecular Cell Research, 1998, 1404, 161-171.	4.1	59
103	Biochemical Characterization of Plasma Membrane Vesicles of <i>Cyanophora paradoxa</i> 1. Botanica Acta, 1997, 110, 401-410.	1.6	10
104	Substratum adhesion and gliding in a diatom are mediated by extracellular proteoglycans. Planta, 1997, 203, 213-221.	3.2	144
105	THE FLAGELLAR DEVELOPMENT CYCLE OF THE UNIFLAGELLATE PELAGOMONAS CALCEOLATA (PELAGOPHYCEAE)1. Journal of Phycology, 1995, 31, 577-583.	2.3	8
106	The production of clonal and axenic cultures of microalgae using fluorescence-activated cell sorting. European Journal of Phycology, 1993, 28, 93-97.	2.0	68
107	Development of the flagellar apparatus during the cell cycle in unicellular algae. Protoplasma, 1991, 164, 23-37.	2.1	94
108	Development of the flagellar apparatus during the cell cycle in unicellular algae. , 1991, , 23-37.		1

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109	The flagellar developmental cycle in algae: flagellar transformation in <i>Cyanophora paradoxa</i> (Glaucocystophyceae). <i>Protoplasma</i> , 1989, 148, 106-110.	2.1	42
110	The flagellar developmental cycle in algae. <i>Protoplasma</i> , 1989, 153, 14-23.	2.1	31
111	Light-Induced Ca <sup>2+</sup> Influx into Spinach Protoplasts. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1987, 42, 283-287.	1.4	9