Dagmar B Stengel

List of Publications by Year
in descending order

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93	4,467	117453	114278
papers	citations	34 h-index	63 g-index

95	95	95	6000
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evolution and Diversity of Plant Cell Walls: From Algae to Flowering Plants. Annual Review of Plant Biology, 2011, 62, 567-590.	8.6	613
2	Algal chemodiversity and bioactivity: Sources of natural variability and implications for commercial application. Biotechnology Advances, 2011, 29, 483-501.	6.0	463
3	Prospects and challenges for industrial production of seaweed bioactives. Journal of Phycology, 2015, 51, 821-837.	1.0	197
4	The Anti-Inflammatory Effect of Algae-Derived Lipid Extracts on Lipopolysaccharide (LPS)-Stimulated Human THP-1 Macrophages. Marine Drugs, 2015, 13, 5402-5424.	2.2	140
5	Metal accumulation and toxicity measured by PAMâ€"Chlorophyll fluorescence in seven species of marine macroalgae. Ecotoxicology and Environmental Safety, 2009, 72, 1063-1075.	2.9	138
6	Fatty acid contents and profiles of 16 macroalgae collected from the Irish Coast at two seasons. Journal of Applied Phycology, 2014, 26, 451-463.	1.5	132
7	Profiling Phlorotannins in Brown Macroalgae by Liquid Chromatographyâ€"High Resolution Mass Spectrometry. Phytochemical Analysis, 2012, 23, 547-553.	1.2	103
8	LC-PUFA-Enriched Oil Production by Microalgae: Accumulation of Lipid and Triacylglycerols Containing n-3 LC-PUFA Is Triggered by Nitrogen Limitation and Inorganic Carbon Availability in the Marine Haptophyte Pavlova lutheri. Marine Drugs, 2013, 11, 4246-4266.	2.2	97
9	Impact of temperature on fatty acid composition and nutritional value in eight species of microalgae. Applied Microbiology and Biotechnology, 2018, 102, 5279-5297.	1.7	89
10	A new HPLC method for the detection of iodine applied to natural samples of edible seaweeds and commercial seaweed food products. Food Chemistry, 2015, 172, 326-334.	4.2	80
11	Connecting marine productivity to sea-spray via nanoscale biological processes: Phytoplankton Dance or Death Disco?. Scientific Reports, 2015, 5, 14883.	1.6	75
12	Morphology,rbcL phylogeny and distribution of distromaticUlva(Ulvophyceae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 T	0.6	73
13	Impacts of ambient salinity and copper on brown algae: 2. Interactive effects on phenolic pool and assessment of metal binding capacity of phlorotannin. Aquatic Toxicology, 2011, 104, 1-13.	1.9	73
14	Developing a Sustainable and Circular Bio-Based Economy in EU: By Partnering Across Sectors, Upscaling and Using New Knowledge Faster, and For the Benefit of Climate, Environment & Biodiversity, and People & Business. Frontiers in Bioengineering and Biotechnology, 2020, 8, 619066.	2.0	71
15	Zinc concentrations in marine macroalgae and a lichen from western Ireland in relation to phylogenetic grouping, habitat and morphology. Marine Pollution Bulletin, 2004, 48, 902-909.	2.3	70
16	Iodine content in bulk biomass of wild-harvested and cultivated edible seaweeds: Inherent variations determine species-specific daily allowable consumption. Food Chemistry, 2018, 254, 333-339.	4.2	70
17	Seasonal variation in the pigment content and photosynthesis of different thallus regions of Ascophyllum nodosum (Fucales, Phaeophyta) in relation to position in the canopy. Phycologia, 1998, 37, 259-268.	0.6	68
18	Seasonal and geographical variations in the biochemical composition of the blue mussel (Mytilus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.2	68

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19	Towards the biorefinery concept: Interaction of light, temperature and nitrogen for optimizing the co-production of high-value compounds in Porphyridium purpureum. Algal Research, 2015, 10, 152-163.	2.4	67
20	Peptide identification from aPorphyra dioicaprotein hydrolysate with antioxidant, angiotensin converting enzyme and dipeptidyl peptidase IV inhibitory activities. Food and Function, 2019, 10, 3421-3429.	2.1	64
21	The chemical and antioxidant stability of isolated low molecular weight phlorotannins. Food Chemistry, 2017, 221, 1104-1112.	4.2	59
22	Impacts of ambient salinity and copper on brown algae: 1. Interactive effects on photosynthesis, growth, and copper accumulation. Aquatic Toxicology, 2011, 104, 94-107.	1.9	58
23	Intraâ€thallus differentiation of fatty acid and pigment profiles in some temperate Fucales and Laminariales. Journal of Phycology, 2015, 51, 25-36.	1.0	57
24	Short-term effects of increasing CO2, nitrate and temperature on three Mediterranean macroalgae: biochemical composition. Aquatic Biology, 2014, 22, 177-193.	0.5	53
25	An assessment of the techno-functional and sensory properties of yoghurt fortified with a lipid extract from the microalga Pavlova lutheri. Innovative Food Science and Emerging Technologies, 2016, 37, 237-246.	2.7	50
26	Morphology andin situgrowth rates of plants ofAscophyllum nodosum(Phaeophyta) from different shore levels and responses of plants to vertical transplantation. European Journal of Phycology, 1997, 32, 193-202.	0.9	47
27	High proportions of inorganic arsenic in Laminaria digitata but not in Ascophyllum nodosum samples from Ireland. Chemosphere, 2017, 186, 17-23.	4.2	46
28	Marine Algae: a Source of Biomass for Biotechnological Applications. Methods in Molecular Biology, 2015, 1308, 1-37.	0.4	43
29	Effects of an experimental heat wave on fatty acid composition in two Mediterranean seagrass species. Marine Pollution Bulletin, 2018, 134, 27-37.	2.3	43
30	Short-term effects of CO2, nutrients and temperature on three marine macroalgae under solar radiation. Aquatic Biology, 2014, 22, 159-176.	0.5	41
31	Quantification of iodine loss in edible Irish seaweeds during processing. Journal of Applied Phycology, 2016, 28, 3527-3533.	1.5	40
32	Ecological and commercial implications of temporal and spatial variability in the composition of pigments and fatty acids in five Irish macroalgae. Marine Biology, 2017, 164, 1.	0.7	40
33	Natural Products From Marine Algae. Methods in Molecular Biology, 2015, , .	0.4	39
34	Temporal and spatial variability of mycosporine-like amino acids and pigments in three edible red seaweeds from western Ireland. Journal of Applied Phycology, 2018, 30, 2573-2586.	1.5	38
35	Tissue Cu, Fe and Mn concentrations in different-aged and different functional thallus regions of three brown algae from western Ireland. Estuarine, Coastal and Shelf Science, 2005, 65, 687-696.	0.9	34
36	Depth-induced adjustment of fatty acid and pigment composition suggests high biochemical plasticity in the tropical seagrass Halophila stipulacea. Marine Ecology - Progress Series, 2019, 608, 105-117.	0.9	34

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37	An assessment of metal contamination along the Irish coast using the seaweed Ascophyllum nodosum (Fucales, Phaeophyceae). Environmental Pollution, 2008, 152, 293-303.	3.7	33
38	Seasonal variation in nitrogenous components and bioactivity of protein hydrolysates from Porphyra dioica. Journal of Applied Phycology, 2017, 29, 2439-2450.	1.5	33
39	Seaweed attachment to bedrock: biophysical evidence for a new geophycology paradigm. Geobiology, 2009, 7, 477-487.	1.1	32
40	Molecular iodine emission rates and photosynthetic performance of different thallus parts of Laminaria digitata (Phaeophyceae) during emersion. Planta, 2011, 233, 737-748.	1.6	32
41	Evaluation of food grade solvents for lipid extraction and impact of storage temperature on fatty acid composition of edible seaweeds Laminaria digitata (Phaeophyceae) and Palmaria palmata (Rhodophyta). Food Chemistry, 2016, 208, 161-168.	4.2	32
42	Variability in growth, development and reproduction of the non-native seaweed Sargassum muticum (Phaeophyceae) on the Irish west coast. Estuarine, Coastal and Shelf Science, 2010, 90, 185-194.	0.9	31
43	Plasticity and remodelling of lipids support acclimation potential in two species of low-intertidal macroalgae, Fucus serratus (Phaeophyceae) and Palmaria palmata (Rhodophyta). Algal Research, 2017, 26, 104-114.	2.4	30
44	Chlorophyll a fluorescence responses of temperate Phaeophyceae under submersion and emersion regimes: a comparison of rapid and steady-state light curves. Photosynthesis Research, 2012, 114, 29-42.	1.6	29
45	Iodine contributes to osmotic acclimatisation in the kelp Laminaria digitata (Phaeophyceae). Planta, 2014, 239, 521-530.	1.6	29
46	UAV-mounted hyperspectral mapping of intertidal macroalgae. Estuarine, Coastal and Shelf Science, 2020, 242, 106789.	0.9	27
47	Interactive effects of light and temperature on pigments and n-3 LC-PUFA-enriched oil accumulation in batch-cultivated Pavlova lutheri using high-bicarbonate supply. Algal Research, 2017, 23, 113-125.	2.4	26
48	Nutraceuticals to promote neuronal plasticity in response to corticosterone-induced stress in human neuroblastoma cells. Nutritional Neuroscience, 2019, 22, 551-568.	1.5	25
49	Filamentous microalgae as an advantageous co-substrate for enhanced methane production and digestate dewaterability in anaerobic co-digestion of pig manure. Waste Management, 2021, 119, 399-407.	3.7	25
50	An assessment of temporal variation in the low molecular weight phlorotannin profiles in four intertidal brown macroalgae. Algal Research, 2019, 41, 101550.	2.4	24
51	Environmental response of an Irish estuary to changing land management practices. Science of the Total Environment, 2015, 521-522, 388-399.	3.9	23
52	Arsenolipids are not uniformly distributed within two brown macroalgal species Saccharina latissima and Alaria esculenta. Analytical and Bioanalytical Chemistry, 2019, 411, 4973-4985.	1.9	23
53	Diversity of bacteria populations associated with different thallus regions of the brown alga Laminaria digitata. PLoS ONE, 2020, 15, e0242675.	1.1	23
54	A novel method combining species distribution models, remote sensing, and field surveys for detecting and mapping subtidal seagrass meadows. Aquatic Conservation: Marine and Freshwater Ecosystems, 2020, 30, 1098-1110.	0.9	22

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55	Lipids and Fatty Acids in Algae: Extraction, Fractionation into Lipid Classes, and Analysis by Gas Chromatography Coupled with Flame Ionization Detector (GC-FID). Methods in Molecular Biology, 2015, 1308, 173-190.	0.4	21
56	Copper and iron concentrations in Ascophyllum nodosum (Fucales, Phaeophyta) from different sites in Ireland and after culture experiments in relation to thallus age and epiphytism. Journal of Experimental Marine Biology and Ecology, 2000, 246, 145-161.	0.7	20
57	Coastal Iodine Emissions. 1. Release of I₂ by Laminaria digitata in Chamber Experiments. Environmental Science & Technology, 2012, 46, 10413-10421.	4.6	20
58	Effects of Temperature and Prolonged Emersion on Photosynthesis, Carbohydrate Content and Growth of the Brown Intertidal Alga Pelvetia canaliculata. Botanica Marina, 2000, 43, .	0.6	19
59	Molecular iodine (I2) emission from two Laminaria species (Phaeophyceae) and impact of irradiance and temperature on I2 emission into air and iodide release into seawater from Laminaria digitata. Marine Environmental Research, 2013, 92, 102-109.	1.1	19
60	Continuous monitoring of in vivo chlorophyll a fluorescence in Ulva rigida (Chlorophyta) submitted to different CO2, nutrient and temperature regimes. Aquatic Biology, 2014, 22, 195-212.	0.5	19
61	Variability in iodine in temperate seaweeds and iodine accumulation kinetics of Fucus vesiculosus and Laminaria digitata (Phaeophyceae, Ochrophyta). Journal of Phycology, 2018, 54, 114-125.	1.0	19
62	Microbial Population Changes in Decaying Ascophyllum nodosum Result in Macroalgal-Polysaccharide-Degrading Bacteria with Potential Applicability in Enzyme-Assisted Extraction Technologies. Marine Drugs, 2019, 17, 200.	2.2	19
63	Responses of the seagrass Halophila stipulacea to depth and spatial gradients in its native region (Red) Tj ETQq1 1 0.784314 rgBT /Ov	0.8	19
64	The seaweeds <i>Fucus vesiculosus</i> and <i>Ascophyllum nodosum</i> are significant contributors to coastal iodine emissions. Atmospheric Chemistry and Physics, 2013, 13, 5255-5264.	1.9	18
65	Influence of Hydrological Regime in Determining the Response of Macroalgal Blooms to Nutrient Loading in Two Irish Estuaries. Estuaries and Coasts, 2016, 39, 478-494.	1.0	18
66	A field deployable method for a rapid screening analysis of inorganic arsenic in seaweed. Mikrochimica Acta, 2017, 184, 1701-1709.	2.5	18
67	Temporal stability in lipid classes and fatty acid profiles of three seaweed species from the north-eastern coast of Brazil. Algal Research, 2019, 41, 101572.	2.4	18
68	Seasonal and species-specific response of five brown macroalgae to high atmospheric CO2. Marine Ecology - Progress Series, 2013, 493, 91-102.	0.9	18
69	Application of multiplatform, multispectral remote sensors for mapping intertidal macroalgae: A comparative approach. Aquatic Conservation: Marine and Freshwater Ecosystems, 2020, 30, 1595-1612.	0.9	16
70	Short-term effects of increased CO2, nitrate and temperature on photosynthetic activity in Ulva rigida (Chlorophyta) estimated by different pulse amplitude modulated fluorometers and oxygen evolution. Journal of Experimental Botany, 2021, 72, 491-509.	2.4	16
71	on the Irish west coast. European Journal of Phycology, 1999, 34, 213-221.	0.9	15
72	Seagrass fatty acid profiles as a sensitive indicator of climate settings across seasons and latitudes. Marine Environmental Research, 2020, 161, 105075.	1.1	15

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73	Linking changes in nutrient source load to estuarine responses: an Irish perspective. Biology and Environment, 2016, 116B, 295.	0.2	15
74	The use of image processing in assessing conchocelis growth and conchospore production in Porphyra linearis. Phycologia, 2004, 43, 282-287.	0.6	13
75	Coastal Iodine Emissions: Part 2. Chamber Experiments of Particle Formation from Laminaria digitata-Derived and Laboratory-Generated I₂. Environmental Science & Technology, 2012, 46, 10422-10428.	4.6	13
76	Temporal and depth-associated changes in the structure, morphometry and production of near-pristine Zostera marina meadows in western Ireland. Aquatic Botany, 2019, 155, 5-17.	0.8	13
77	Decoupling Abundance and Biomass of Phytoplankton Communities Under Different Environmental Controls: A New Multi-Metric Index. Frontiers in Marine Science, 2019, 6, .	1.2	12
78	Acclimation potential and biochemical response of four temperate macroalgae to light and future seasonal temperature scenarios. Algal Research, 2021, 54, 102190.	2.4	12
79	SEASONAL GROWTH AND PHENOTYPIC VARIATION INPORPHYRA LINEARIS(RHODOPHYTA) POPULATIONS ON THE WEST COAST OF IRELAND. Journal of Phycology, 2007, 43, 90-100.	1.0	11
80	Seasonal Acclimation Modulates the Impacts of Simulated Warming and Light Reduction on Temperate Seagrass Productivity and Biochemical Composition. Frontiers in Marine Science, 2021, 8, .	1.2	11
81	Contribution of living and degrading kelp to coastal iodine fluxes. Marine Biology, 2015, 162, 1727-1738.	0.7	10
82	Role of thermal photosynthetic plasticity in the dispersal and settlement of two global green tide formers: Ulva pertusa and U. ohnoi. Marine Biology, 2019, 166, 1.	0.7	9
83	Voltammetric characterisation of macroalgae-exuded organic ligands (L) in response to Cu and Zn: a source and stimuli for L. Environmental Chemistry, 2014, 11, 100.	0.7	8
84	Factors influencing the distribution of coastal lichens Hydropunctaria maura and Wahlenbergiella mucosa. Marine Ecology, 2015, 36, 1400-1414.	0.4	8
85	Phycobiliproteins, nitrogenous compounds and fatty acid contents in field-collected and cultured gametophytes of Porphyra dioica, a red sea vegetable. Journal of Applied Phycology, 2019, 31, 3849-3860.	1.5	5
86	Seasonal growth and recruitment of Himanthalia elongata (Fucales, Phaeophycota) in different habitats on the Irish west coast. European Journal of Phycology, 1999, 34, 213-221.	0.9	4
87	An ecological baseline for Laminaria hyperborea forests in western Ireland. Limnology and Oceanography, 2021, 66, 3439-3454.	1.6	4
88	Bromoform, mycosporine-like amino acids and phycobiliprotein content and stability in Asparagopsis armata during long-term indoor cultivation. Journal of Applied Phycology, 2022, 34, 1635-1647.	1.5	4
89	Low energy harvesting of hydrophobic microalgae (Tribonema sp.) by electro-flotation without coagulation. Science of the Total Environment, 2022, 838, 155866.	3.9	4
90	Alternation of nuclear phases and chromosome numbers inPorphyra linearis(Bangiales, Rhodophyta) from western Ireland and Maine, USA. Phycologia, 2005, 44, 61-65.	0.6	3

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91	Can Native Epiphytes affect Establishment Success of the Alien Seaweed Sargassum Muticum (Phaeophyceae)?. Biology and Environment, 2014, 114B, 41.	0.2	3
92	Morphology and in situ growth rates of plants of Ascophyllum nodosum (Phaeophyta) from different shore levels and responses of plants to vertical transplantation. , 0, .		3
93	Metal complexation by organic ligands (L) in near-pristine estuarine waters: evidence for the identity of L. Environmental Chemistry, 2014, 11, 89.	0.7	2