

# Kathryn L Van Alstyne

## List of Publications by Year in descending order

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51  
papers

3,002  
citations

147566

31  
h-index

189595

50  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2206  
citing authors

#	ARTICLE	IF	CITATIONS
1	Herbivore Grazing Increases Polyphenolic Defenses in the Intertidal Brown Alga <i>Fucus Distichus</i> . <i>Ecology</i> , 1988, 69, 655-663.	1.5	232
2	Activation of chemical defenses in the tropical green algae <i>Halimeda</i> spp.. <i>Journal of Experimental Marine Biology and Ecology</i> , 1992, 160, 191-203.	0.7	167
3	Activated defense systems in marine macroalgae: evidence for an ecological role for DMSP cleavage. <i>Marine Ecology - Progress Series</i> , 2001, 213, 53-65.	0.9	160
4	ECOLOGICAL AND PHYSIOLOGICAL CONTROLS OF SPECIES COMPOSITION IN GREEN MACROALGAL BLOOMS. <i>Ecology</i> , 2008, 89, 1287-1298.	1.5	144
5	Comparison of three methods for quantifying brown algal polyphenolic compounds. <i>Journal of Chemical Ecology</i> , 1995, 21, 45-58.	0.9	135
6	Chemical defense and chemical variation in some tropical Pacific species of <i>Halimeda</i> (Halimedaceae); Tj ETQq0 0 0 rgBT /Overlock 10 TF	0.9	129
7	Dimethylsulfide release during macroinvertebrate grazing and its role as an activated chemical defense. <i>Marine Ecology - Progress Series</i> , 2003, 250, 175-181.	0.9	122
8	The biogeography of polyphenolic compounds in marine macroalgae: temperate brown algal defenses deter feeding by tropical herbivorous fishes. <i>Oecologia</i> , 1990, 84, 158-163.	0.9	107
9	EFFECTS OF UV RADIATION ON GROWTH AND PHLOROTANNINS IN <i>FUCUS GARDNERI</i> (PHAEOPHYCEAE) JUVENILES AND EMBRYOS. <i>Journal of Phycology</i> , 2004, 40, 527-533.	1.0	97
10	Palatability of Macroalgae that Use Different Types of Chemical Defenses. <i>Journal of Chemical Ecology</i> , 2006, 32, 1883-1895.	0.9	95
11	Mechanisms of differential survival and growth of two species of <i>Littorina</i> on wave-exposed and on protected shores. <i>Journal of Experimental Marine Biology and Ecology</i> , 1993, 169, 139-166.	0.7	92
12	DMSP in marine macroalgae and macroinvertebrates: Distribution, function, and ecological impacts. <i>Aquatic Sciences</i> , 2007, 69, 394-402.	0.6	92
13	PHLOROTANNIN ALLOCATION AMONG TISSUES OF NORTHEASTERN PACIFIC KELPS AND ROCKWEEDS. <i>Journal of Phycology</i> , 1999, 35, 483-492.	1.0	90
14	Use of ingested algal diterpenoids by <i>Elysia halimeda</i> Macnae (Opisthobranchia : Ascoglossa) as antipredator defenses. <i>Journal of Experimental Marine Biology and Ecology</i> , 1988, 119, 15-29.	0.7	88
15	Differences in herbivore preferences, phlorotannin production, and nutritional quality between juvenile and adult tissues from marine brown algae. <i>Marine Biology</i> , 2001, 139, 201-210.	0.7	79
16	The distribution of dimethylsulfoniopropionate in tropical Pacific coral reef invertebrates. <i>Coral Reefs</i> , 2006, 25, 321-327.	0.9	77
17	Environmental Chemistry and Chemical Ecology of "Green Tide" Seaweed Blooms. <i>Integrative and Comparative Biology</i> , 2015, 55, 518-532.	0.9	71
18	Antipredator defenses in tropical Pacific soft corals (Coelenterata: Alcyonacea) II. The relative importance of chemical and structural defenses in three species of <i>Sinularia</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 1994, 178, 17-34.	0.7	70

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19	Dopamine functions as an antiherbivore defense in the temperate green alga <i>Ulvaria obscura</i> . <i>Oecologia</i> , 2006, 148, 304-311.	0.9	69
20	Geographic variation in polyphenolic levels of Northeastern Pacific kelps and rockweeds. <i>Marine Biology</i> , 1999, 133, 371-379.	0.7	68
21	Chemical and structural defenses in the sea fan <i>Gorgonia ventalina</i> : effects against generalist and specialist predators. <i>Coral Reefs</i> , 1992, 11, 155-159.	0.9	66
22	INTRASPECIFIC VARIATION IN STRESS-INDUCED HYDROGEN PEROXIDE SCAVENGING BY THE ULVOID MACROALGAL <i>ULVA LACTUCA</i> . <i>Journal of Phycology</i> , 2007, 43, 466-474.	1.0	64
23	Sulfur isotope variability of oceanic DMSP generation and its contributions to marine biogenic sulfur emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9012-9016.	3.3	58
24	Nutritional preferences override chemical defenses in determining food choice by a generalist herbivore, <i>Littorina sitkana</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2009, 379, 85-91.	0.7	46
25	Spatial variation in dimethylsulfoniopropionate (DMSP) production in <i>Ulva lactuca</i> (Chlorophyta) from the Northeast Pacific. <i>Marine Biology</i> , 2007, 150, 1127-1135.	0.7	45
26	Anti-grazing activity and seasonal variation of dimethylsulfoniopropionate-associated compounds in the invasive alga <i>Codium fragile</i> ssp. <i>tomentosoides</i> . <i>Marine Biology</i> , 2007, 153, 179-188.	0.7	43
27	Spatial and temporal variation in DMSP content in the invasive seaweed <i>Codium fragile</i> ssp. <i>fragile</i> : effects of temperature, light and grazing. <i>Marine Ecology - Progress Series</i> , 2010, 417, 51-61.	0.9	39
28	Is dimethylsulfoniopropionate (DMSP) produced by the symbionts or the host in an anemone-zooxanthella symbiosis?. <i>Coral Reefs</i> , 2009, 28, 167-176.	0.9	35
29	Effects of dopamine, a compound released by the green-tide macroalga <i>Ulvaria obscura</i> (Chlorophyta), on marine algae and invertebrate larvae and juveniles. <i>Phycologia</i> , 2014, 53, 195-202.	0.6	35
30	Ecological and Physiological Roles of Dimethylsulfoniopropionate and its Products in Marine Macroalgae. , 2008, , 173-194.		34
31	AN EXPERIMENTAL ASSESSMENT OF THE EFFECTS OF NUTRIENT ENHANCEMENT ON THE INTERTIDAL KELP <i>ULVOPHYLLUM SESSILE</i> (LAMINARIALES, PHAEOPHYCEAE). <i>Journal of Phycology</i> , 2003, 39, 285-290.	1.0	31
32	The Effects of Salinity on Dimethylsulfoniopropionate Production in the Green Alga <i>Ulva fenestrata</i> Postels et Ruprecht (Chlorophyta). <i>Botanica Marina</i> , 2003, 46, .	0.6	31
33	Plant characteristics associated with widespread variation in eelgrass wasting disease. <i>Diseases of Aquatic Organisms</i> , 2016, 118, 159-168.	0.5	28
34	Characteristics of softwater streams in Rhode Island. III. Distribution of macrophytic vegetation in a small drainage basin. <i>Hydrobiologia</i> , 1986, 140, 183-191.	1.0	22
35	EFFECT OF TREE CANOPY REMOVAL BY GYPSY MOTH LARVAE ON THE MACROALGAE OF A RHODE ISLAND HEADWATER STREAM. <i>Journal of Phycology</i> , 1986, 22, 567-570.	1.0	22
36	Phenolic concentrations of brown seaweeds and relationships to nearshore environmental gradients in Western Australia. <i>Marine Biology</i> , 2017, 164, 1.	0.7	22

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37	Dopamine release by the green alga <i>Ulvaria obscura</i> after simulated immersion by incoming tides. <i>Marine Biology</i> , 2011, 158, 2087-2094.	0.7	21
38	EFFECTS OF WOUNDING BY THE HERBIVOROUS SNAILS <i>LITTORINA SITKANA</i> AND <i>L. SCUTULATA</i> (MOLLUSCA) ON GROWTH AND REPRODUCTION OF THE INTERTIDAL ALGA <i>FUCUS DISTICHUS</i> (PHAEOPHYTA). <i>Journal of Phycology</i> , 1990, 26, 412-416.	1.0	18
39	Effects of emersion, temperature, dopamine, and hypoxia on the accumulation of extracellular oxidants surrounding the bloom-forming seaweeds <i>Ulva lactuca</i> and <i>Ulvaria obscura</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2013, 448, 207-213.	0.7	18
40	Estimating variation in surface emissivities of intertidal macroalgae using an infrared thermometer and the effects on temperature measurements. <i>Marine Biology</i> , 2014, 161, 1409-1418.	0.7	15
41	Seawater nitrogen concentration and light independently alter performance, growth, and resource allocation in the bloom-forming seaweeds <i>Ulva lactuca</i> and <i>Ulvaria obscura</i> (Chlorophyta). <i>Harmful Algae</i> , 2018, 78, 27-35.	2.2	15
42	Dopamine release by <i>Ulvaria obscura</i> (Chlorophyta): environmental triggers and impacts on photosynthesis, growth, and survival of the releaser. <i>Journal of Phycology</i> , 2013, 49, 719-727.	1.0	13
43	Nitrogen content in the brown alga <i>Fucus gardneri</i> and its relation to light, herbivory and wave exposure. <i>Journal of Experimental Marine Biology and Ecology</i> , 2006, 336, 99-109.	0.7	12
44	Herbivore impacts on two morphologically similar bloom-forming <i>Ulva</i> species in a eutrophic bay. <i>Hydrobiologia</i> , 2015, 753, 175-188.	1.0	11
45	Seasonal changes in nutrient limitation and nitrate sources in the green macroalga <i>Ulva lactuca</i> at sites with and without green tides in a northeastern Pacific embayment. <i>Marine Pollution Bulletin</i> , 2016, 103, 186-194.	2.3	11
46	Effects of environmental changes, tissue types and reproduction on the emissions of dimethyl sulfide from seaweeds that form green tides. <i>Environmental Chemistry</i> , 2016, 13, 220.	0.7	11
47	The distribution of DMSP in green macroalgae from northern New Zealand, eastern Australia and southern Tasmania. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2008, 88, 799-805.	0.4	9
48	Recreational clam harvesting affects sediment nutrient remineralization and the growth of the green macroalga <i>Ulva lactuca</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 401, 57-62.	0.7	7
49	Picky Pugettia: a tale of two kelps. <i>Marine Biology</i> , 2017, 164, 1.	0.7	7
50	Exudates of the green alga <i>Ulvaria obscura</i> (Kützting) affect larval development of the sand dollar <i>Dendraster excentricus</i> (Eschscholtz) and the Pacific oyster <i>Crassostrea gigas</i> (Thunberg). <i>Marine Biology</i> , 2017, 164, 1.	0.7	6
51	Linking Physiology To Ecological Function: Environmental Conditions Affect Performance And Size Of The Intertidal Kelp <i>Hedophyllum sessile</i> (Laminariales, Phaeophyceae). <i>Journal of Phycology</i> , 2021, 57, 128-142.	1.0	2