Charles D Amsler

List of Publications by Year
in descending order

129 papers	5,124 citations	57631 44 h-index	106150 65 g-index
131 all docs	131 docs citations	131 times ranked	3615 citing authors

#	Article	IF	Citations
1	Who Cares More about Chemical Defenses â€" the Macroalgal Producer or Its Main Grazer?. Journal of Chemical Ecology, 2022, 48, 416-430.	0.9	2
2	Tongalides, Halogenated Butenolides from an Antarctic Delisea sp. Rhodophyte. Journal of Natural Products, 2022, 85, 1886-1891.	1.5	3
3	Hidden Diversity in an Antarctic Algal Forest: Metabolomic Profiling Linked to Patterns of Genetic Diversification in the Antarctic Red Alga Plocamium sp.. Marine Drugs, 2021, 19, 607.	2.2	10
4	Introduction to the Symposium: New Frontiers in Antarctic Marine Biology. Integrative and Comparative Biology, 2020, 60, 1355-1357.	0.9	1
5	Every Rule Has an Exception: a Cheater in the Community-Wide Mutualism in Antarctic Seaweed Forests. Integrative and Comparative Biology, 2020, 60, 1358-1368.	0.9	10
6	Bioactivity of Spongian Diterpenoid Scaffolds from the Antarctic Sponge Dendrilla antarctica. Marine Drugs, 2020, 18, 327.	2.2	15
7	Intertidal foraging by gentoo penguins in a macroalgal raft. Antarctic Science, 2020, 32, 43-44.	0.5	1
8	Spongian Diterpenoids Derived from the Antarctic Sponge Dendrilla antarctica Are Potent Inhibitors of the Leishmania Parasite. Journal of Natural Products, 2020, 83, 1553-1562.	1.5	22
9	Chemical Mediation of Antarctic Macroalga-Grazer Interactions. , 2020, , 339-363.		4
10	Juvenile morphology of the large Antarctic canopy-forming brown alga, Desmarestia menziesii J. Agardh. Polar Biology, 2019, 42, 2097-2103.	0.5	4
11	Fatty acid trophic transfer of Antarctic algae to a sympatric amphipod consumer. Antarctic Science, 2019, 31, 315-316.	0.5	1
12	Contrasting chemotactic escape responses of the common Antarctic gastropod Margarella antarctica to four species of sympatric sea stars. Polar Science, 2019, 22, 100486.	0.5	3
13	Anverenes Bâ€"E, New Polyhalogenated Monoterpenes from the Antarctic Red Alga Plocamium cartilagineum. Marine Drugs, 2019, 17, 230.	2.2	16
14	Impacts of gastropods on epiphytic microalgae on the brown macroalga Himantothallus grandifolius. Antarctic Science, 2019, 31, 89-97.	0.5	11
15	The Use of Photographic Color Information for High-Throughput Phenotyping of Pigment Composition in Agarophyton vermiculophyllum (Ohmi) Gurgel, J.N.Norris & Fredericq. Cryptogamie, Algologie, 2019, 40, 73.	0.3	0
16	Declines in plant palatability from polar to tropical latitudes depend on herbivore and plant identity. Ecology, 2017, 98, 2312-2321.	1.5	14
17	Gut content, fatty acid, and stable isotope analyses reveal dietary sources of macroalgal-associated amphipods along the western Antarctic Peninsula. Polar Biology, 2017, 40, 1371-1384.	0.5	22
18	Effects of ocean acidification on the shells of four Mediterranean gastropod species near a CO2 seep. Marine Pollution Bulletin, 2017, 124, 917-928.	2.3	47

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19	Darwinolide, a New Diterpene Scaffold That Inhibits Methicillin-Resistant Staphylococcus aureus Biofilm from the Antarctic Sponge Dendrilla membranosa. Organic Letters, 2016, 18, 2596-2599.	2.4	47
20	Antarctic crustacean grazer assemblages exhibit resistance following exposure to decreased pH. Marine Biology, 2016, 163, 1.	0.7	8
21	Climate change confers a potential advantage to fleshy Antarctic crustose macroalgae over calcified species.. Journal of Experimental Marine Biology and Ecology, 2016, 474, 58-66.	0.7	26
22	Control of grazing by light availability via light-dependent, wound-induced metabolites: The role of reactive oxygen species. Journal of Experimental Marine Biology and Ecology, 2016, 477, 86-91.	0.7	5
23	Testing Antarctic resilience: the effects of elevated seawater temperature and decreased pH on two gastropod species. ICES Journal of Marine Science, 2016, 73, 739-752.	1.2	30
24	Multi-frequency observations of seawater carbonate chemistry on the central coast of the western Antarctic Peninsula. Polar Research, 2015, 34, 25582.	1.6	25
25	Climate change impacts on overstory Desmarestia spp. from the western Antarctic Peninsula. Marine Biology, 2015, 162, 377-389.	0.7	46
26	Life history bias in endophyte infection of the Antarctic rhodophyte, Iridaea cordata. Botanica Marina, 2015, 58, 1-8.	0.6	12
27	A comprehensive study of Antarctic algal symbioses: minimal impacts of endophyte presence in most species of macroalgal hosts. European Journal of Phycology, 2015, 50, 271-278.	0.9	5
28	Impacts of acute elevated seawater temperature on the feeding preferences of an Antarctic amphipod toward chemically deterrent macroalgae. Marine Biology, 2015, 162, 425-433.	0.7	39
29	Abundance and diversity of gastropods associated with dominant subtidal macroalgae from the western Antarctic Peninsula. Polar Biology, 2015, 38, 1171-1181.	0.5	27
30	The immediate woundâ€induced oxidative burst of Saccharina latissima depends on light via photosynthetic electron transport. Journal of Phycology, 2015, 51, 431-441.	1.0	16
31	Structure and Function of Macroalgal Natural Products. Methods in Molecular Biology, 2015, 1308, 39-73.	0.4	33
32	Chemical mediation of mutualistic interactions between macroalgae and mesograzers structure unique coastal communities along the western Antarctic Peninsula. Journal of Phycology, 2014, 50, 1-10.	1.0	77
33	Reactive oxygen species and the <scp>A</scp>ntarctic macroalgal wound response. Journal of Phycology, 2014, 50, 71-80.	1.0	41
34	Reactive oxygen species as a marine grazing defense: H2O2 and wounded Ascoseira mirabilis both inhibit feeding by an amphipod grazer. Journal of Experimental Marine Biology and Ecology, 2014, 458, 34-38.	0.7	20
35	Multiple stressor effects of near-future elevated seawater temperature and decreased pH on righting and escape behaviors of two common Antarctic gastropods. Journal of Experimental Marine Biology and Ecology, 2014, 457, 90-96.	0.7	31
36	Endophyte presence as a potential stressor on growth and survival in Antarctic macroalgal hosts. Phycologia, 2013, 52, 595-599.	0.6	15

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37	West Antarctic Peninsula: An Ice-Dependent Coastal Marine Ecosystem in Transition. Oceanography, 2013, 26, 190-203.	0.5	249
38	Site-Specific Variability in the Chemical Diversity of the Antarctic Red Alga Plocamium cartilagineum. Marine Drugs, 2013, 11, 2126-2139.	2.2	49
39	Tolerance and sequestration of macroalgal chemical defenses by an Antarctic amphipod: a â€˜cheaterâ€™ among mutualists. Marine Ecology - Progress Series, 2013, 490, 79-90.	0.9	20
40	Phototactic responses of Elachista antarctica (Phaeophyceae) spores of different ages across aÂbroad irradiance range using new motion analysis software. Botanica Marina, 2012, 55, .	0.6	0
41	The abundance and distribution of echinoderms in nearshore hard-bottom habitats near Anvers Island, western Antarctic Peninsula. Antarctic Science, 2012, 24, 554-560.	0.5	8
42	Palatability of living and dead detached Antarctic macroalgae to consumers. Antarctic Science, 2012, 24, 589-590.	0.5	15
43	Effects of Macroalgal Chemical Extracts on Spore Behavior of the Antarctic Epiphyte Elachista antarctica Phaeophyceae. Journal of Phycology, 2012, 48, 1403-1410.	1.0	7
44	Algicidal activity and potential antifouling defenses in macroalgae from the western Antarctic Peninsula including probable synergistic effects of multiple compounds. Botanica Marina, 2012, 55, 311-315.	0.6	4
45	Palmadorin chemodiversity from the Antarctic nudibranch Austrodoris kerguelenensis and inhibition of Jak2/STAT5-dependent HEL leukemia cells. Tetrahedron, 2012, 68, 9095-9104.	1.0	46
46	Chemical Ecology of Seaweeds. Ecological Studies, 2012, , 177-188.	0.4	6
47	Seaweeds and Their Communities in Polar Regions. Ecological Studies, 2012, , 265-291.	0.4	73
48	Amphipods exclude filamentous algae from the Western Antarctic Peninsula benthos: experimental evidence. Polar Biology, 2012, 35, 171-177.	0.5	17
49	The Mg-Calcite Composition of Antarctic Echinoderms: Important Implications for Predicting the Impacts of Ocean Acidification. Journal of Geology, 2011, 119, 457-466.	0.7	71
50	Gut contents and stable isotope analyses of the Antarctic fish, Notothenia coriiceps (Richardson), from two macroalgal communities. Antarctic Science, 2011, 23, 107-116.	0.5	14
51	IMPACTS OF MESOGRAZERS ON EPIPHYTE AND ENDOPHYTE GROWTH ASSOCIATED WITH CHEMICALLY DEFENDED MACROALGE FROM THE WESTERN ANTARCTIC PENINSULA: A MESOCOSM EXPERIMENT¹. Journal of Phycology, 2011, 47, 36-41.	1.0	27
52	Palatability of the Antarctic rhodophyte Palmaria decipiens (Reinsch) RW Ricker and its endo/epiphyte Elachista antarctica Skottsberg to sympatric amphipods. Journal of Experimental Marine Biology and Ecology, 2011, 396, 202-206.	0.7	40
53	Palmerolide macrolides from the Antarctic tunicate Synoicum adareanum. Bioorganic and Medicinal Chemistry, 2011, 19, 6608-6614.	1.4	48
54	CNS and antimalarial activity of synthetic meridianin and psammopemmin analogs. Bioorganic and Medicinal Chemistry, 2011, 19, 5756-5762.	1.4	31

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55	Accumulation of vanadium, manganese, and nickel in Antarctic tunicates. Polar Biology, 2011, 34, 587-590.	0.5	8
56	Changes in amphipod densities among macroalgal habitats in day versus night collections along the Western Antarctic Peninsula. Marine Biology, 2011, 158, 1879-1885.	0.7	25
57	A comprehensive evaluation of the potential chemical defenses of antarctic ascidians against sympatric fouling microorganisms. Marine Biology, 2011, 158, 2661-2671.	0.7	17
58	The Pursuit of Potent Anti-influenza Activity from the Antarctic Red Marine Alga Gigartina skottsbergii. , 2011, , 1-12.		0
59	Potential chemical defenses of Antarctic sponges against sympatric microorganisms. Polar Biology, 2010, 33, 649-658.	0.5	23
60	Introduction to the Symposium: Advances in Antarctic Marine Biology. Integrative and Comparative Biology, 2010, 50, 948-949.	0.9	0
61	Chemically mediated resistance to mesoherbivory in finely branched macroalgae along the western Antarctic Peninsula. European Journal of Phycology, 2010, 45, 19-26.	0.9	61
62	Palmadorins Aâ^'C, Diterpene Glycerides from the Antarctic Nudibranch Austrodoris kerguelenensis. Journal of Natural Products, 2010, 73, 416-421.	1.5	21
63	Overview of the Chemical Ecology of Benthic Marine Invertebrates along the Western Antarctic Peninsula. Integrative and Comparative Biology, 2010, 50, 967-980.	0.9	72
64	Habitat choice and predator avoidance by Antarctic amphipods: the roles of algal chemistry and morphology. Marine Ecology - Progress Series, 2010, 400, 155-163.	0.9	71
65	Observations on an Association Between the Dexaminid Amphipod Polycheria antarctica f. acanthopoda and Its Ascidian Host Distaplia cylindrica. Journal of Crustacean Biology, 2009, 29, 605-608.	0.3	12
66	An evaluation of sponge-associated amphipods from the Antarctic Peninsula. Antarctic Science, 2009, 21, 579-589.	0.5	52
67	Norselic Acids Aâ^'E, Highly Oxidized Anti-infective Steroids that Deter Mesograzer Predation, from the Antarctic Sponge Crella sp.. Journal of Natural Products, 2009, 72, 1842-1846.	1.5	54
68	Rapid dissolution of shells of weakly calcified Antarctic benthic macroorganisms indicates high vulnerability to ocean acidification. Antarctic Science, 2009, 21, 449-456.	0.5	119
69	Filamentous algal endophytes in macrophytic Antarctic algae: prevalence in hosts and palatability to mesoherbivores. Phycologia, 2009, 48, 324-334.	0.6	51
70	Defenses of polar macroalgae against herbivores and biofoulers. Botanica Marina, 2009, 52, 535-545.	0.6	64
71	Field studies on deterrent properties of phlorotannins in Antarctic brown algae. Botanica Marina, 2009, 52, 547-557.	0.6	34
72	Notes on the systematics and biogeographical relationships of Antarctic and sub-Antarctic Rhodophyta with descriptions of four new genera and five new species. Botanica Marina, 2009, 52, 509-534.	0.6	80

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73	Effects of ocean acidification over the life history of the barnacle Amphibalanus amphitrite. Marine Ecology - Progress Series, 2009, 385, 179-187.	0.9	131
74	Palatability and chemical anti-predatory defenses in common ascidians from the Antarctic Peninsula. Aquatic Biology, 2009, 7, 81-92.	0.5	54
75	Palatability and chemical defenses of sponges from the western Antarctic Peninsula. Marine Ecology - Progress Series, 2009, 385, 77-85.	0.9	61
76	A laboratory study of behavioral interactions of the Antarctic keystone sea star Odontaster validus with three sympatric predatory sea stars. Marine Biology, 2008, 154, 1077-1084.	0.7	35
77	Mesofauna associated with the marine sponge Amphimedon viridis. Do its physical or chemical attributes provide a prospective refuge from fish predation?. Journal of Experimental Marine Biology and Ecology, 2008, 362, 95-100.	0.7	33
78	Macroalgal Chemical Defenses in Polar Marine Communities. , 2008, , 91-103.		8
79	Algal Sensory Chemical Ecology. , 2008, , 297-309.		11
80	Ecdysteroids from the Antarctic Tunicate Synoicum adareanum. Journal of Natural Products, 2007, 70, 1859-1864.	1.5	66
81	Effects of sonication and advanced chemical oxidants on the unicellular green alga Dunaliella tertiolecta and cysts, larvae and adults of the brine shrimp Artemia salina: A prospective treatment to eradicate invasive organisms from ballast water. Marine Pollution Bulletin, 2007, 54, 1777-1788.	2.3	54
82	Allocation Patterns of Phlorotannins in Antarctic Brown Algae. Phycologia, 2007, 46, 386-395.	0.6	30
83	Patterns of gammaridean amphipod abundance and species composition associated with dominant subtidal macroalgae from the western Antarctic Peninsula. Polar Biology, 2007, 30, 1417-1430.	0.5	94
84	Life strategy, ecophysiology and ecology of seaweeds in polar waters. Reviews in Environmental Science and Biotechnology, 2007, 6, 95-126.	3.9	128
85	Effects of temperature and light on growth of the Antarctic algae Geminocarpus geminatus (Ectocarpales: Phaeophyceae) and Cladophora repens (Cladophorales: Cladophorophyceae) in culture. Phycologia, 2006, 45, 225-232.	0.6	6
86	Palmerolide A, a Cytotoxic Macrolide from the Antarctic TunicateSynoicumadareanum. Journal of the American Chemical Society, 2006, 128, 5630-5631.	6.6	162
87	LACK OF DEFENSE OR PHLOROTANNIN INDUCTION BY UV RADIATION OR MESOGRAZERS IN DESMARESTIA ANCEPS AND D. MENZIESII (PHAEOPHYCEAE) 1. Journal of Phycology, 2006, 42, 1174-1183.	1.0	58
88	The biochemical composition, energy content, and chemical antifeedant defenses of the common Antarctic Peninsular sea stars Granaster nutrix and Neosmilaster georgianus. Polar Biology, 2006, 29, 615-623.	0.5	7
89	Feeding rates of common Antarctic gammarid amphipods on ecologically important sympatric macroalgae. Journal of Experimental Marine Biology and Ecology, 2006, 329, 55-65.	0.7	90
90	The use of computer-assisted motion analysis for quantitative studies of the behaviour of barnacle () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.4	17

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91	Bioassay-guided fractionation of antifouling compounds using computer-assisted motion analysis of brown algal spore swimming. Biofouling, 2006, 22, 125-132.	0.8	15
92	Within-thallus variation in chemical and physical defences in two species of ecologically dominant brown macroalgae from the Antarctic Peninsula. Journal of Experimental Marine Biology and Ecology, 2005, 322, 1-12.	0.7	60
93	Variation in phlorotannin content within two species of brown macroalgae (Desmarestia anceps and) Tj ETQq1 1 0.784314 rgBT /Ove	0.5	81
94	Defensive and Sensory Chemical Ecology of Brown Algae. Advances in Botanical Research, 2005, 43, 1-91.	0.5	189
95	Potential chemical defenses against diatom fouling in Antarctic macroalgae. Botanica Marina, 2005, 48, .	0.6	32
96	A comparative analysis of the nutritional and elemental composition of macroalgae from the western Antarctic Peninsula. Phycologia, 2005, 44, 453-463.	0.6	49
97	Ecology of Antarctic Marine Sponges: An Overview. Integrative and Comparative Biology, 2005, 45, 359-368.	0.9	173
98	CLONAL VARIATION IN PHOTOTAXIS AND SETTLEMENT BEHAVIORS OF HINCKSIA IRREGULARIS (PHAEOPHYCEAE) SPORES¹. Journal of Phycology, 2004, 40, 44-53.	1.0	13
99	Further Membranolide Diterpenes from the Antarctic SpongeDendrillamembranosa. Journal of Natural Products, 2004, 67, 1172-1174.	1.5	43
100	Chemical Investigation of Predator-Deterred Macroalgae from the Antarctic Peninsula. Journal of Natural Products, 2004, 67, 1295-1302.	1.5	84
101	Surface sequestration of chemical feeding deterrents in the Antarctic sponge Latrunculia apicalis as an optimal defense against sea star spongivory. Marine Biology, 2003, 143, 443-449.	0.7	91
102	Tissue-specific palatability and chemical defenses against macropredators and pathogens in the common articulate brachiopod Liothyrella uva from the Antarctic Peninsula. Journal of Experimental Marine Biology and Ecology, 2003, 290, 197-210.	0.7	64
103	A New Antifouling Bioassay Monitoring Brown Algal Spore Swimming Behaviour in the Presence of Echinoderm Extracts. Biofouling, 2003, 19, 327-334.	0.8	35
104	Individual and Coupled Effects of Echinoderm Extracts and Surface Hydrophobicity on Spore Settlement and Germination in the Brown AlgaHincksia irregularis. Biofouling, 2003, 19, 315-326.	0.8	22
105	Chemical defences in embryos and juveniles of two common Antarctic sea stars and an isopod. Antarctic Science, 2003, 15, 339-344.	0.5	14
106	Chemo-tactile predator avoidance responses of the common Antarctic limpet Nacella concinna. Polar Biology, 2002, 25, 469-473.	0.5	27
107	LIGHT BOUNDARIES AND THE COUPLED EFFECTS OF SURFACE HYDROPHOBICITY AND LIGHT ON SPORE SETTLEMENT IN THE BROWN ALGA HINCKSIA IRREGULARIS (PHAEOPHYCEAE)1. Journal of Phycology, 2002, 38, 116-124.	1.0	19
108	Secondary Metabolites as Mediators of Trophic Interactions Among Antarctic Marine Organisms. American Zoologist, 2001, 41, 17-26.	0.7	19

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109	Utilization of a novel deuterostome model for the study of regeneration genetics: molecular cloning of genes that are differentially expressed during early stages of larval sea star regeneration. Gene, 2001, 262, 73-80.	1.0	21
110	INDUCED DEFENSES IN MACROALGAE: THE HERBIVORE MAKES A DIFFERENCE. Journal of Phycology, 2001, 37, 353-356.	1.0	58
111	Regeneration in echinoderm larvae. Microscopy Research and Technique, 2001, 55, 464-473.	1.2	29
112	Secondary Metabolites as Mediators of Trophic Interactions Among Antarctic Marine Organisms1. American Zoologist, 2001, 41, 17-26.	0.7	59
113	Qualitative and quantitative studies of the swimming behaviour of Hincksia irregularis (Phaeophyceae) spores: ecological implications and parameters for quantitative swimming assays. Phycologia, 2001, 40, 359-366.	0.6	29
114	Introduction to the Symposium: Antarctic Marine Biology. American Zoologist, 2001, 41, 1-2.	0.7	6
115	Chemical defenses against diatom fouling in Antarctic marine sponges. Biofouling, 2000, 16, 29-45.	0.8	47
116	NUTRIENTS DO NOT INFLUENCE SWIMMING BEHAVIOR OR SETTLEMENT RATES OF ECTOCARPUS SILICULOSUS (PHAEOPHYCEAE) SPORES. Journal of Phycology, 1999, 35, 239-244.	1.0	17
117	CHEMICAL DEFENSE AGAINST HERBIVORY IN THE ANTARCTIC MARINE MACROALGAE IRIDAEA CORDATA AND PHYLLOPHORA ANTARCTICA (RHODOPHYCEAE). Journal of Phycology, 1998, 34, 53-59.	1.0	37
118	Isolation, Structure Elucidation, and Biological Activity of the Steroid Oligoglycosides and Polyhydroxysteroids from the Antarctic Starfish Acodontaster conspicuus. Journal of Natural Products, 1997, 60, 959-966.	1.5	52
119	Use of Computer-Assisted Motion Analysis for Quantitative Measurements of Swimming Behavior in Peritrichously Flagellated Bacteria. Analytical Biochemistry, 1996, 235, 20-25.	1.1	29
120	Vertical distribution of Antarctic peninsular macroalgae: cover, biomass and species composition. Phycologia, 1995, 34, 424-430.	0.6	114
121	NEUTRAL LIPIDS AS MAJOR STORAGE PRODUCTS IN ZOOSPORES OE THE GIANT KELP MACROCYSTIS PYRIFERA (PHAEOPHYGEAE)1. Journal of Phycology, 1993, 29, 16-23.	1.0	44
122	The microclimate inhabited by macroalgal propagules. British Phycological Journal, 1992, 27, 253-270.	1.3	91
123	PHOTOSYNTHETIC PHYSIOLOGY AND CHEMICAL COMPOSITION OF SPORES OF THE KELPS MACROCYSTIS PYRIFERA, NEREOCYSTIS LUETKEANA, LAMINARIA FARLOWII, AND PTERYGOPHORA CALIFORNICA (PHAEOPHYCEAE)1. Journal of Phycology, 1991, 27, 26-34.	1.0	59
124	Diel periodicity of spore release from the kelp Nereocystis luetkeana (Mertens) Postels et Ruprecht. Journal of Experimental Marine Biology and Ecology, 1989, 134, 117-127.	0.7	54
125	GIFFORDIA ONSLOWENSIS SP. NOV. (PHAEOPHYCEAE) FROM THE NORTH CAROLINA CONTINENTAL SHELF AND THE RELATIONSHIP BETWEEN GIFFORDIA AND ACINETOSPORA¹. Journal of Phycology, 1985, 21, 94-99.	1.0	11
126	Culture and field studies of Acinetospora crinita (Carmichael) Sauvageau (Ectocarpaceae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (F	0.6	20

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127	VERTICAL DISTRIBUTION OF SEAWEED SPORES IN A WATER COLUMN OFFSHORE OF NORTH CAROLINA¹. Journal of Phycology, 1980, 16, 617-619.	1.0	87
128	Chemotactic Signal Transduction in Escherichia coli and Salmonella typhimurium. , 0, , 89-103.		14
129	Gastropod assemblages associated with Himantothallus grandifolius, Sarcopeltis antarctica and other subtidal macroalgae. Antarctic Science, 0, , 1-10.	0.5	7