

Mary A Sewell

List of Publications by Year in descending order

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96
papers

5,190
citations

136950

32
h-index

91884

69
g-index

96
all docs

96
docs citations

96
times ranked

6062
citing authors

#	ARTICLE	IF	CITATIONS
1	Contributing to marine pollution by washing your face: Microplastics in facial cleansers. <i>Marine Pollution Bulletin</i> , 2009, 58, 1225-1228.	5.0	1,052
2	Can we predict ectotherm responses to climate change using thermal performance curves and body temperatures?. <i>Ecology Letters</i> , 2016, 19, 1372-1385.	6.4	587
3	The Effect of Ocean Acidification on Calcifying Organisms in Marine Ecosystems: An Organism-to-Ecosystem Perspective. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2010, 41, 127-147.	8.3	434
4	How Distribution and Abundance Influence Fertilization Success in the Sea Urchin <i>Strongylocentrotus Franciscanus</i> . <i>Ecology</i> , 1992, 73, 248-254.	3.2	320
5	Ocean acidification alters skeletogenesis and gene expression in larval sea urchins. <i>Marine Ecology - Progress Series</i> , 2010, 398, 157-171.	1.9	178
6	Kinetics of Fertilization in the Sea Urchin <i>Strongylocentrotus franciscanus</i> : Interaction of Gamete Dilution, Age, and Contact Time. <i>Biological Bulletin</i> , 1991, 181, 371-378.	1.8	173
7	A laboratory-based, experimental system for the study of ocean acidification effects on marine invertebrate larvae. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 441-452.	2.0	89
8	Utilization of lipids during early development of the sea urchin <i>Evechinus chloroticus</i> . <i>Marine Ecology - Progress Series</i> , 2005, 304, 133-142.	1.9	86
9	Nutritional ecology of sea urchin larvae: influence of endogenous and exogenous nutrition on echinopluteal growth and phenotypic plasticity in <i>Tripneustes gratilla</i> . <i>Functional Ecology</i> , 2008, 22, 643-648.	3.6	82
10	Effects of temperature on fecundity in vitro, egg hatching and reproductive development of <i>Benedenia seriolae</i> and <i>Zeuxapta seriolae</i> (Monogenea) parasitic on yellowtail kingfish <i>Seriola lalandi</i> . <i>International Journal for Parasitology</i> , 2005, 35, 315-327.	3.1	74
11	Mice Lacking the Neuropeptide \pm -Calcitonin Gene-Related Peptide Are Protected Against Diet-Induced Obesity. <i>Endocrinology</i> , 2010, 151, 4257-4269.	2.8	74
12	Simultaneous Spawning of Six Species of Echinoderms in Barkley Sound, British Columbia. <i>International Journal of Invertebrate Reproduction and Development</i> , 1988, 14, 279-288.	0.7	73
13	Temperature limits to fertilization and early development in the tropical sea urchin <i>Echinometra lucunter</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 1999, 236, 291-305.	1.5	72
14	Rapid adaptation to food availability by a dopamine-mediated morphogenetic response. <i>Nature Communications</i> , 2011, 2, 592.	12.8	71
15	Fuels for development: evolution of maternal provisioning in asterinid sea stars. <i>Marine Biology</i> , 2008, 153, 337-349.	1.5	67
16	Maternal provisioning for larvae and larval provisioning for juveniles in the toxopneustid sea urchin <i>Tripneustes gratilla</i> . <i>Marine Biology</i> , 2008, 155, 473-482.	1.5	65
17	Developmental plasticity in larval development in the echinometrid sea urchin <i>Evechinus chloroticus</i> with varying food ration. <i>Journal of Experimental Marine Biology and Ecology</i> , 2004, 309, 219-237.	1.5	59
18	Using DNA barcoding and phylogenetics to identify Antarctic invertebrate larvae: Lessons from a large scale study. <i>Marine Genomics</i> , 2010, 3, 165-177.	1.1	54

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19	Are Echinoderm Egg Size Distributions Bimodal?. Biological Bulletin, 1997, 193, 297-305.	1.8	52
20	Organically selective movement and deposit-feeding in juvenile sea cucumber, <i>Australostichopus mollis</i> determined in situ and in the laboratory. Journal of Experimental Marine Biology and Ecology, 2011, 409, 315-323.	1.5	52
21	A New Biologically Active Malyngamide from a New Zealand Collection of the Sea Hare <i>Bursatella leachii</i> . Journal of Natural Products, 2002, 65, 630-631.	3.0	49
22	Effect of manufactured diets on the yield, biochemical composition and sensory quality of <i>Evechinus chloroticus</i> sea urchin gonads. Aquaculture, 2010, 308, 49-59.	3.5	45
23	Antarctic echinoids and climate change: a major impact on the brooding forms. Global Change Biology, 2011, 17, 734-744.	9.5	45
24	Multi-locus DNA metabarcoding of zooplankton communities and scat reveal trophic interactions of a generalist predator. Scientific Reports, 2019, 9, 281.	3.3	42
25	Title is missing!. Biodiversity and Conservation, 1997, 6, 1507-1522.	2.6	41
26	Development Under Elevated CO_2 Conditions Does Not Affect Lipid Utilization and Protein Content in Early Life-History Stages of the Purple Sea Urchin, <i>Strongylocentrotus purpuratus</i> . Biological Bulletin, 2012, 223, 312-327.	1.8	40
27	Small Size, Brooding, and Protandry in the Apodid Sea Cucumber <i>Leptosynapta clarki</i> . Biological Bulletin, 1994, 187, 112-123.	1.8	38
28	Aspects of the ecology of <i>Stichopus mollis</i> (Echinodermata: Holothuroidea) in north-eastern New Zealand. New Zealand Journal of Marine and Freshwater Research, 1990, 24, 97-103.	2.0	37
29	Variability in the reproductive cycle of <i>Stichopus mollis</i> (Echinodermata: Holothuroidea). Invertebrate Reproduction and Development, 1990, 17, 1-7.	0.8	36
30	Rapid declines in metabolism explain extended coral larval longevity. Coral Reefs, 2013, 32, 539-549.	2.2	35
31	Reproduction of the temperate aspidochirote <i>Stichopus mollis</i> (Echinodermata: Holothuroidea) in New Zealand. Ophelia, 1992, 35, 103-121.	0.3	34
32	Ocean Acidification and Fertilization in the Antarctic Sea Urchin <i>Sterechinus neumayeri</i> : the Importance of Polyspermy. Environmental Science & Technology, 2014, 48, 713-722.	10.0	34
33	Temperature and salinity: two climate change stressors affecting early development of the New Zealand sea urchin <i>Evechinus chloroticus</i> . Marine Biology, 2014, 161, 1999-2009.	1.5	34
34	Growth Attenuation with Developmental Schedule Progression in Embryos and Early Larvae of <i>Sterechinus neumayeri</i> Raised under Elevated CO_2 . PLoS ONE, 2013, 8, e52448.	2.5	33
35	Low coverage sequencing of three echinoderm genomes: the brittle star <i>Ophionereis fasciata</i> , the sea star <i>Patiriella regularis</i> , and the sea cucumber <i>Australostichopus mollis</i> . GigaScience, 2016, 5, 20.	6.4	33
36	Temperature and salinity tolerances of Stage 1 zoeae predict possible range expansion of an introduced portunid crab, <i>Charybdis japonica</i> , in New Zealand. Biological Invasions, 2011, 13, 691-699.	2.4	32

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37	Avian eggshell pigments are not consistently correlated with colour measurements or egg constituents in two <i>Turdus</i> thrushes. <i>Journal of Avian Biology</i> , 2012, 43, 503-512.	1.2	32
38	Pelagic propagule duration and developmental mode: reassessment of a fading link. <i>Global Ecology and Biogeography</i> , 2013, 22, 517-530.	5.8	31
39	Detection of the impact of predation by migratory shorebirds: an experimental test in the Fraser River estuary, British Columbia (Canada). <i>Marine Ecology - Progress Series</i> , 1996, 144, 23-40.	1.9	30
40	Effects of warm acclimation on physiology and gonad development in the sea urchin <i>Evechinus chloroticus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2016, 198, 33-40.	1.8	28
41	Lipid and protein utilisation during early development of yellowtail kingfish (<i>Seriola lalandi</i>). <i>Marine Biology</i> , 2008, 154, 855-865.	1.5	27
42	Ocean acidification in New Zealand waters: trends and impacts. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2018, 52, 155-195.	2.0	27
43	Reproduction of the intraovarian brooding apodid <i>Leptosynapta clarki</i> (Echinodermata: Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50 5	1.5	26
44	Mechanical Resistance to Shear Stress: The Role of Echinoderm Egg Extracellular Layers. <i>Biological Bulletin</i> , 1999, 197, 7-10.	1.8	26
45	Sex and reproductive cycle affect lipid and fatty acid profiles of gonads of <i>Arbacia dufresnii</i> (Echinodermata: Echinoidea). <i>Marine Ecology - Progress Series</i> , 2016, 551, 185-199.	1.9	25
46	A source for asteroid larvae?: recruitment of <i>Pisaster ochraceus</i> , <i>Pycnopodia helianthoides</i> and <i>Dermasterias imbricata</i> in Nootka Sound, British Columbia. <i>Marine Biology</i> , 1993, 117, 387-398.	1.5	25
47	Sensory and volatile analysis of sea urchin roe from different geographical regions in New Zealand. <i>LWT - Food Science and Technology</i> , 2010, 43, 202-213.	5.2	24
48	Rotavirus NSP4 is secreted from infected cells as an oligomeric lipoprotein and binds to glycosaminoglycans on the surface of non-infected cells. <i>Virology Journal</i> , 2011, 8, 551.	3.4	24
49	Examination of the meroplankton community in the south-western Ross Sea, Antarctica, using a collapsible plankton net. <i>Polar Biology</i> , 2005, 28, 119-131.	1.2	23
50	Maternal Provisioning in <i>Ophionereis fasciata</i> and <i>O. schayeri</i> : Brittle Stars With Contrasting Modes of Development. <i>Biological Bulletin</i> , 2006, 211, 204-207.	1.8	23
51	Molecular Species Identification of <i>Astrotoma agassizii</i> from Planktonic Embryos: Further Evidence for a Cryptic Species Complex. <i>Journal of Heredity</i> , 2010, 101, 775-779.	2.4	23
52	Uncoupling temperature-dependent mortality from lipid depletion for scleractinian coral larvae. <i>Coral Reefs</i> , 2017, 36, 97-104.	2.2	23
53	Ovarian Development in the Class Holothuroidea: a Reassessment of the "Tubule Recruitment Model". <i>Biological Bulletin</i> , 1997, 192, 17-26.	1.8	21
54	Temperature limits to early development of the New Zealand sea urchin <i>Evechinus chloroticus</i> (Valenciennes, 1846). <i>Journal of Thermal Biology</i> , 2013, 38, 218-224.	2.5	21

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55	Real-time 2D visualization of metabolic activities in zebrafish embryos using a microfluidic technology. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2015, 87, 446-450.	1.5	21
56	Hybridization in the sea: gametic and developmental constraints on fertilization in sympatric species of <i>Pseudechinus</i> (Echinodermata: Echinoidea). <i>Journal of Experimental Marine Biology and Ecology</i> , 2003, 284, 51-70.	1.5	20
57	Revisiting the larval dispersal black box in the Anthropocene. <i>ICES Journal of Marine Science</i> , 2018, 75, 1841-1848.	2.5	20
58	Evolution of maternal provisioning in ophiuroid echinoderms: characterisation of egg composition in planktotrophic and lecithotrophic developers. <i>Marine Ecology - Progress Series</i> , 2015, 525, 1-13.	1.9	20
59	Seasonal patterns in diversity and abundance of the High Antarctic meroplankton: Plankton sampling using a Ross Sea desalination plant. <i>Limnology and Oceanography</i> , 2011, 56, 1667-1681.	3.1	19
60	The reproductive ecology of the invasive ascidian, <i>Styela clava</i> , in Auckland Harbour, New Zealand. <i>Marine Biology</i> , 2011, 158, 2775-2785.	1.5	17
61	Differences in population connectivity of a benthic marine invertebrate <i>Evechinus chloroticus</i> (Echinodermata: Echinoidea) across large and small spatial scales. <i>Conservation Genetics</i> , 2015, 16, 965-978.	1.5	16
62	The first mitochondrial genomes of endosymbiotic rhabdocoels illustrate evolutionary relaxation of <i>atp8</i> and genome plasticity in flatworms. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 454-469.	7.5	16
63	The meroplankton community of the oceanic Ross Sea during late summer. <i>Antarctic Science</i> , 2014, 26, 345-360.	0.9	15
64	Dwarf brooder versus giant broadcaster: combining genetic and reproductive data to unravel cryptic diversity in an Antarctic brittle star. <i>Heredity</i> , 2019, 123, 622-633.	2.6	15
65	The role of the hyaline spheres in sea cucumber metamorphosis: lipid storage via transport cells in the blastocoel. <i>EvoDevo</i> , 2019, 10, 8.	3.2	15
66	Three-stage lipid dynamics during development of planktotrophic echinoderm larvae. <i>Marine Ecology - Progress Series</i> , 2017, 583, 149-161.	1.9	15
67	Seasonal changes in the biochemical composition of <i>Evechinus chloroticus</i> gonads (Echinodermata: Echinoidea). <i>New Zealand Journal of Marine and Freshwater Research</i> , 2012, 46, 399-410.	2.0	14
68	Does a complex life cycle affect adaptation to environmental change? Genome-informed insights for characterizing selection across complex life cycle. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20212122.	2.6	14
69	On the need to consider multiphasic sensitivity of marine organisms to climate change: a case study of the Antarctic acorn barnacle. <i>Journal of Biogeography</i> , 2017, 44, 2165-2175.	3.0	12
70	Lipid and fatty acid profiles of gametes and spawned gonads of <i>Arbacia dufresnii</i> (Echinodermata: Echinoidea). <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 371, 10-19.	1.5	12
71	The Larval Apical Organ in the Holothuroid <i>Chiridota gigas</i> (Apodida): Inferences on Evolution of the Ambulacrarian Larval Nervous System. <i>Biological Bulletin</i> , 2006, 211, 95-100.	1.8	11
72	Identification of protein components from the mature ovary of the sea urchin <i>Evechinus chloroticus</i> (Echinodermata: Echinoidea). <i>Proteomics</i> , 2008, 8, 2531-2542.	2.2	11

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73	Reproduction, larval development and settlement of the intertidal serpulid polychaete <i>Spirobranchus cariniferus</i> . Journal of the Marine Biological Association of the United Kingdom, 2013, 93, 1249-1256.	0.8	11
74	The meroplankton community of the northern Ross Sea: a preliminary comparison with the McMurdo Sound region. Antarctic Science, 2006, 18, 595-602.	0.9	10
75	A comparison of egg yolk lipid constituents between parasitic Common Cuckoos and their hosts. Auk, 2015, 132, 817-825.	1.4	10
76	Mortality of Pentactulae During Intraovarian Brooding in the Apodid Sea Cucumber <i>Leptosynapta clarki</i> . Biological Bulletin, 1996, 190, 188-194.	1.8	8
77	Loved to pieces: Toward the sustainable management of the Waitemat� Harbour and Hauraki Gulf. Regional Studies in Marine Science, 2016, 8, 220-233.	0.7	8
78	Maternal investment and nutrient utilization during early larval development of the sea cucumber <i>Australostichopus mollis</i> . Marine Biology, 2017, 164, 1.	1.5	8
79	Effect of acclimation on thermal limits and hsp70 gene expression of the New Zealand sea urchin <i>Evechinus chloroticus</i> . Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 250, 110806.	1.8	8
80	Desalination plants as plankton sampling devices in temporal studies: proof of concept and suggestions for the future. Limnology and Oceanography: Methods, 2009, 7, 363-370.	2.0	6
81	The reproductive ecology of the invasive Asian paddle crab, <i>Charybdis japonica</i> (Brachyura: Tj ETQq1 1 0.784314 rgBT / Overlock 0.9	0.9	6
82	The meroplankton communities from the coastal Ross Sea: a latitudinal study. Hydrobiologia, 2015, 761, 195-209.	2.0	6
83	Genotype-by-environment interactions during early development of the sea urchin <i>Evechinus chloroticus</i> . Marine Biology, 2016, 163, 1.	1.5	6
84	A redescription of <i>Leptosynapta clarki</i> Heding (Echinodermata: Holothuroidea) from the northeast Pacific, with notes on changes in spicule form and size with age. Canadian Journal of Zoology, 1995, 73, 469-485.	1.0	5
85	Evidence for matrotrophy in the viviparous sea cucumber <i>Leptosynapta clarki</i> : A role for the genital haemal sinus?. Invertebrate Reproduction and Development, 2006, 49, 225-236.	0.8	5
86	Chromosome number and chromosome variation in embryos of <i>Evechinus chloroticus</i> (Echinoidea: Echinometridae): Is there conservation of chromosome number in the Phylum Echinodermata? New findings and a brief review. Invertebrate Reproduction and Development, 2007, 50, 219-231.	0.8	4
87	Sequencing one sex or the other has to be justified: Gender genomics and equality. Heredity, 2008, 101, 395-395.	2.6	4
88	The population genetics and origin of invasion of the invasive Asian paddle crab, <i>Charybdis japonica</i> (A. Tj ETQq0 0 0 rgBT / Overlock 1.5 4 1.	1.5	4
89	Near-future oceanic CO2 delays development and growth in early-stage larvae of the endemic New Zealand sea urchin, <i>Evechinus chloroticus</i> . Marine Biology, 2021, 168, 1.	1.5	4
90	The cryopelagic meroplankton community in the shallow waters of Gerlache Inlet, Terra Nova Bay, Antarctica. Antarctic Science, 2008, 20, 53-60.	0.9	3

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91	Repeated measurement of Mo ₂ in small aquatic organisms: a manual intermittent flow respirometer using off-the-shelf components. <i>Journal of Applied Physiology</i> , 2018, 124, 741-749.	2.5	3
92	Comparative ultrastructure of spermatozoa from two regular and two irregular New Zealand echinoids. <i>Invertebrate Biology</i> , 2015, 134, 341-351.	0.9	2
93	Maternal Lipid Provisioning Mirrors Evolution of Reproductive Strategies in Direct-Developing Whelks. <i>Biological Bulletin</i> , 2016, 230, 188-196.	1.8	2
94	Lab-on-a-chip technology for a non-invasive and real-time visualisation of metabolic activities in larval vertebrates. , 2015, , .		1
95	Description and ecophysiology of a new species of <i>Syndesmis</i> Silliman, 1881 (Rhabdocoela: Umagillidae) from the sea urchin <i>Evechinus chloroticus</i> (Valenciennes, 1846) Mortensen, 1943 in New Zealand. <i>International Journal for Parasitology: Parasites and Wildlife</i> , 2019, 10, 71-82.	1.5	1
96	Year-round maturity of the chaetognath <i>Aidanosagitta regularis</i> in the Hauraki Gulf, New Zealand. <i>Marine and Freshwater Research</i> , 2015, 66, 852.	1.3	1