

Mary A Sewell

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95
papers

3,917
citations

30
h-index

61
g-index

96
ext. papers

4,545
ext. citations

3.3
avg, IF

5.58
L-index

#	Paper	IF	Citations
95	Contributing to marine pollution by washing your face: microplastics in facial cleansers. <i>Marine Pollution Bulletin</i> , 2009 , 58, 1225-1228	6.7	744
94	Can we predict ectotherm responses to climate change using thermal performance curves and body temperatures?. <i>Ecology Letters</i> , 2016 , 19, 1372-1385	10	377
93	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	13.5	355
92	How Distribution and Abundance Influence Fertilization Success in the Sea Urchin <i>Strongylocentrotus Franciscanus</i> . <i>Ecology</i> , 1992 , 73, 248-254	4.6	220
91	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	1.5	146
90	Ocean acidification alters skeletogenesis and gene expression in larval sea urchins. <i>Marine Ecology - Progress Series</i> , 2010 , 398, 157-171	2.6	136
89	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	2.6	72
88	Utilization of lipids during early development of the sea urchin <i>Evechinus chloroticus</i> . <i>Marine Ecology - Progress Series</i> , 2005 , 304, 133-142	2.6	71
87	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	5.6	68
86	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	2.1	65
85	Fuels for development: evolution of maternal provisioning in asterinid sea stars. <i>Marine Biology</i> , 2008 , 153, 337-349	2.5	60
84	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, 315-27	4.3	57
83	Mice lacking the neuropeptide alpha-calcitonin gene-related peptide are protected against diet-induced obesity. <i>Endocrinology</i> , 2010 , 151, 4257-69	4.8	56
82	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	2.5	54
81	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		50
80	Rapid adaptation to food availability by a dopamine-mediated morphogenetic response. <i>Nature Communications</i> , 2011 , 2, 592	17.4	49
79	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	3.1	47

78	Are Echinoderm Egg Size Distributions Bimodal?. <i>Biological Bulletin</i> , 1997 , 193, 297-305	1.5	44
77	A new biologically active malyngamide from a New Zealand collection of the sea hare <i>Bursatella leachii</i> . <i>Journal of Natural Products</i> , 2002 , 65, 630-1	4.9	44
76	Using DNA barcoding and phylogenetics to identify Antarctic invertebrate larvae: Lessons from a large scale study. <i>Marine Genomics</i> , 2010 , 3, 165-77	1.9	42
75	Antarctic echinoids and climate change: a major impact on the brooding forms. <i>Global Change Biology</i> , 2011 , 17, 734-744	11.4	40
74	Organically selective movement and deposit-feeding in juvenile sea cucumber, <i>Australostichopus mollis</i> determined in situ and in the laboratory. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011 , 409, 315-323	2.1	40
73	Effect of manufactured diets on the yield, biochemical composition and sensory quality of <i>Evechinus chloroticus</i> sea urchin gonads. <i>Aquaculture</i> , 2010 , 308, 49-59	4.4	39
72	Development under elevated pCO ₂ conditions does not affect lipid utilization and protein content in early life-history stages of the purple sea urchin, <i>Strongylocentrotus purpuratus</i> . <i>Biological Bulletin</i> , 2012 , 223, 312-27	1.5	35
71	Biogeographic and bathymetric ranges of Atlantic deep-sea echinoderms and ascidians: the role of larval dispersal. <i>Biodiversity and Conservation</i> , 1997 , 6, 1507-1522	3.4	35
70	Aspects of the ecology of <i>Stichopus mollis</i> (Echinodermata: Holothuroidea) in north-eastern New Zealand. <i>New Zealand Journal of Marine and Freshwater Research</i> , 1990 , 24, 97-103	1.3	33
69	Small Size, Brooding, and Protandry in the Apodid Sea Cucumber <i>Leptosynapta clarki</i> . <i>Biological Bulletin</i> , 1994 , 187, 112-123	1.5	31
68	Variability in the reproductive cycle of <i>Stichopus mollis</i> (Echinodermata: Holothuroidea). <i>Invertebrate Reproduction and Development</i> , 1990 , 17, 1-7	0.7	31
67	Ocean acidification and fertilization in the antarctic sea urchin <i>Sterechinus neumayeri</i> : the importance of polyspermy. <i>Environmental Science & Technology</i> , 2014 , 48, 713-22	10.3	30
66	Reproduction of the temperate aspidochirote <i>Stichopus mollis</i> (Echinodermata: Holothuroidea) in New Zealand. <i>Ophelia</i> , 1992 , 35, 103-121		30
65	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	1.9	29
64	Growth attenuation with developmental schedule progression in embryos and early larvae of <i>Sterechinus neumayeri</i> raised under elevated CO ₂ . <i>PLoS ONE</i> , 2013 , 8, e52448	3.7	29
63	Multi-locus DNA metabarcoding of zooplankton communities and scat reveal trophic interactions of a generalist predator. <i>Scientific Reports</i> , 2019 , 9, 281	4.9	26
62	Temperature and salinity: two climate change stressors affecting early development of the New Zealand sea urchin <i>Evechinus chloroticus</i> . <i>Marine Biology</i> , 2014 , 161, 1999-2009	2.5	26
61	Rapid declines in metabolism explain extended coral larval longevity. <i>Coral Reefs</i> , 2013 , 32, 539-549	4.2	26

60	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	2.6	26
59	Pelagic propagule duration and developmental mode: reassessment of a fading link. <i>Global Ecology and Biogeography</i> , 2013 , 22, 517-530	6.1	25
58	Lipid and protein utilisation during early development of yellowtail kingfish (<i>Seriola lalandi</i>). <i>Marine Biology</i> , 2008 , 154, 855-865	2.5	23
57	Reproduction of the intraovarian brooding apodid <i>Leptosynapta clarki</i> (Echinodermata: Holothuroidea) in British Columbia. <i>Marine Biology</i> , 1994 , 121, 285-300	2.5	23
56	Temperature and salinity tolerances of Stage 1 zoeae predict possible range expansion of an introduced portunid crab, <i>Charybdis japonica</i> , in New Zealand. <i>Biological Invasions</i> , 2011 , 13, 691-699	2.7	22
55	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, 204-7	1.5	22
54	Mechanical Resistance to Shear Stress: The Role of Echinoderm Egg Extracellular Layers. <i>Biological Bulletin</i> , 1999 , 197, 7-10	1.5	22
53	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	2.6	22
52	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> . <i>GigaScience</i> , 2016 , 5, 20	7.6	21
51	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	6.1	21
50	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	2.5	21
49	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, 446-50	4.6	20
48	Ocean acidification in New Zealand waters: trends and impacts. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2018 , 52, 155-195	1.3	20
47	Molecular species identification of <i>Astrotothoa agassizii</i> from planktonic embryos: further evidence for a cryptic species complex. <i>Journal of Heredity</i> , 2010 , 101, 775-9	2.4	20
46	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	2.9	19
45	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	5.4	19
44	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	2.1	19
43	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	2	18

42	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	4.8	17
41	Revisiting the larval dispersal black box in the Anthropocene. <i>ICES Journal of Marine Science</i> , 2018 , 75, 1841-1848	2.7	16
40	The reproductive ecology of the invasive ascidian, <i>Styela clava</i> , in Auckland Harbour, New Zealand. <i>Marine Biology</i> , 2011 , 158, 2775-2785	2.5	15
39	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	1.3	14
38	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	2.6	14
37	Ovarian Development in the Class Holothuroidea: a Reassessment of the "Tubule Recruitment Model". <i>Biological Bulletin</i> , 1997 , 192, 17-26	1.5	13
36	Three-stage lipid dynamics during development of planktotrophic echinoderm larvae. <i>Marine Ecology - Progress Series</i> , 2017 , 583, 149-161	2.6	13
35	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	2.6	12
34	The meroplankton community of the oceanic Ross Sea during late summer. <i>Antarctic Science</i> , 2014 , 26, 345-360	1.7	12
33	Identification of protein components from the mature ovary of the sea urchin <i>Evechinus chloroticus</i> (Echinodermata: Echinoidea). <i>Proteomics</i> , 2008 , 8, 2531-42	4.8	11
32	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	2.6	11
31	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	4.1	10
30	Uncoupling temperature-dependent mortality from lipid depletion for scleractinian coral larvae. <i>Coral Reefs</i> , 2017 , 36, 97-104	4.2	10
29	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	1.5	10
28	The meroplankton community of the northern Ross Sea: a preliminary comparison with the McMurdo Sound region. <i>Antarctic Science</i> , 2006 , 18, 595-602	1.7	10
27	A comparison of egg yolk lipid constituents between parasitic Common Cuckoos and their hosts. <i>Auk</i> , 2015 , 132, 817-825	2.1	9
26	Lipid and fatty acid profiles of gametes and spawned gonads of <i>Arbacia dufresnii</i> (Echinodermata: Echinoidea): sexual differences in the lipids of nutritive phagocytes. <i>Marine Biology</i> , 2019 , 166, 1	2.5	8
25	Loved to pieces: Toward the sustainable management of the Waitematā Harbour and Hauraki Gulf. <i>Regional Studies in Marine Science</i> , 2016 , 8, 220-233	1.5	8

24	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	3.6	7
23	Reproduction, larval development and settlement of the intertidal serpulid polychaete <i>Spirobranchus cariniferus</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2013 , 93, 1249-1256	1.1	7
22	The reproductive ecology of the invasive Asian paddle crab, <i>Charybdis japonica</i> (Brachyura: Portunidae), in northeastern New Zealand. <i>Invertebrate Biology</i> , 2015 , 134, 303-317	1	6
21	Mortality of Pentactulae During Intraovarian Brooding in the Apodid Sea Cucumber <i>Leptosynapta clarki</i> . <i>Biological Bulletin</i> , 1996 , 190, 188-194	1.5	6
20	Maternal investment and nutrient utilization during early larval development of the sea cucumber <i>Australostichopus mollis</i> . <i>Marine Biology</i> , 2017 , 164, 1	2.5	5
19	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	7.9	5
18	Desalination plants as plankton sampling devices in temporal studies: proof-of-concept and suggestions for the future. <i>Limnology and Oceanography: Methods</i> , 2009 , 7, 363-370	2.6	5
17	Evidence for matrotrophy in the viviparous sea cucumber <i>Leptosynapta clarki</i> : A role for the genital haemal sinus?. <i>Invertebrate Reproduction and Development</i> , 2006 , 49, 225-236	0.7	5
16	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	4
15	The meroplankton communities from the coastal Ross Sea: a latitudinal study. <i>Hydrobiologia</i> , 2015 , 761, 195-209	2.4	4
14	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. <i>Canadian Journal of Zoology</i> , 1995 , 73, 469-485	1.5	4
13	The population genetics and origin of invasion of the invasive Asian paddle crab, <i>Charybdis japonica</i> (A. Milne-Edwards, 1861) (Brachyura: Portunidae) in north-eastern New Zealand. <i>Marine Biology</i> , 2016 , 163, 1	2.5	4
12	Genotype-by-environment interactions during early development of the sea urchin <i>Evechinus chloroticus</i> . <i>Marine Biology</i> , 2016 , 163, 1	2.5	4
11	Effect of acclimation on thermal limits and <i>hsp70</i> gene expression of the New Zealand sea urchin <i>Evechinus chloroticus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020 , 250, 110806	2.6	3
10	Maternal Lipid Provisioning Mirrors Evolution of Reproductive Strategies in Direct-Developing Whelks. <i>Biological Bulletin</i> , 2016 , 230, 188-96	1.5	2
9	The cryopelagic meroplankton community in the shallow waters of Gerlache Inlet, Terra Nova Bay, Antarctica. <i>Antarctic Science</i> , 2008 , 20, 53-60	1.7	2
8	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. <i>Invertebrate Reproduction and Development</i> , 2007 , 50, 219-231	0.7	2
7	Repeated measurement of <i>Mo</i> in small aquatic organisms: a manual intermittent flow respirometer using off-the-shelf components. <i>Journal of Applied Physiology</i> , 2018 , 124, 741-749	3.7	1

6	Description and ecophysiology of a new species of Silliman, 1881 (Rhabdozoa: Umagillidae) from the sea urchin (Valenciennes, 1846) Mortensen, 1943 in New Zealand. <i>International Journal for Parasitology: Parasites and Wildlife</i> , 2019 , 10, 71-82	2.6	1
5	Comparative ultrastructure of spermatozoa from two regular and two irregular New Zealand echinoids. <i>Invertebrate Biology</i> , 2015 , 134, 341-351	1	1
4	Lab-on-a-chip technology for a non-invasive and real-time visualisation of metabolic activities in larval vertebrates 2015 ,		1
3	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	4.4	1
2	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	2.2	1
1	Near-future oceanic CO ₂ delays development and growth in early-stage larvae of the endemic New Zealand sea urchin, <i>Evechinus chloroticus</i> . <i>Marine Biology</i> , 2021 , 168, 1	2.5	0