

Michelle Waycott

List of Publications by Citations

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117
papers

8,866
citations

36
h-index

93
g-index

137
ext. papers

10,524
ext. citations

4.1
avg, IF

5.77
L-index

#	Paper	IF	Citations
117	Accelerating loss of seagrasses across the globe threatens coastal ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 12377-81	11.5	2255
116	A Global Crisis for Seagrass Ecosystems. <i>BioScience</i> , 2006 , 56, 987	5.7	1793
115	Global seagrass distribution and diversity: A bioregional model. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007 , 350, 3-20	2.1	608
114	Extinction risk assessment of the world's seagrass species. <i>Biological Conservation</i> , 2011 , 144, 1961-1971	16.2	464
113	Phylogenetic Studies in Alismatidae, II: Evolution of Marine Angiosperms (Seagrasses) and Hydrophily. <i>Systematic Botany</i> , 1997 , 22, 443	0.7	263
112	Mixed responses of tropical Pacific fisheries and aquaculture to climate change. <i>Nature Climate Change</i> , 2013 , 3, 591-599	21.4	212
111	The Central Role of Dispersal in the Maintenance and Persistence of Seagrass Populations. <i>BioScience</i> , 2012 , 62, 56-65	5.7	210
110	Associations of concern: declining seagrasses and threatened dependent species. <i>Frontiers in Ecology and the Environment</i> , 2009 , 7, 242-246	5.5	205
109	Unravelling complexity in seagrass systems for management: Australia as a microcosm. <i>Science of the Total Environment</i> , 2015 , 534, 97-109	10.2	155
108	A framework for the resilience of seagrass ecosystems. <i>Marine Pollution Bulletin</i> , 2015 , 100, 34-46	6.7	136
107	Genetic diversity enhances restoration success by augmenting ecosystem services. <i>PLoS ONE</i> , 2012 , 7, e38397	3.7	112
106	Temperature extremes reduce seagrass growth and induce mortality. <i>Marine Pollution Bulletin</i> , 2014 , 83, 483-90	6.7	102
105	Arbitrarily amplified DNA markers as characters for phylogenetic inference. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2005 , 7, 3-26	3	99
104	The movement ecology of seagrasses. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281,	4.4	92
103	Seagrass population dynamics and water quality in the Great Barrier Reef region: a review and future research directions. <i>Marine Pollution Bulletin</i> , 2005 , 51, 343-50	6.7	91
102	Responses of four Indo-West Pacific seagrass species to shading. <i>Marine Pollution Bulletin</i> , 2012 , 65, 342-54	6.7	88
101	Thermal tolerance of two seagrass species at contrasting light levels: Implications for future distribution in the Great Barrier Reef. <i>Limnology and Oceanography</i> , 2011 , 56, 2200-2210	4.8	87

100	Seagrasses of southwest Australia: A conceptual synthesis of the world's most diverse and extensive seagrass meadows. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007 , 350, 21-45	2.1	82
99	Seagrass ecosystem trajectory depends on the relative timescales of resistance, recovery and disturbance. <i>Marine Pollution Bulletin</i> , 2018 , 134, 166-176	6.7	69
98	Evidence for transoceanic migrations by loggerhead sea turtles in the southern Pacific Ocean. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 1993-9	4.4	67
97	Light thresholds derived from seagrass loss in the coastal zone of the northern Great Barrier Reef, Australia. <i>Ecological Indicators</i> , 2012 , 23, 211-219	5.8	65
96	Toward a Coordinated Global Observing System for Seagrasses and Marine Macroalgae. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	63
95	Combatting social isolation and increasing social participation of older adults through the use of technology: A systematic review of existing evidence. <i>Australasian Journal on Ageing</i> , 2018 , 37, 184-193	1.5	60
94	Linked indicator sets for addressing biodiversity loss. <i>Oryx</i> , 2011 , 45, 411-419	1.5	58
93	Restoration recovers population structure and landscape genetic connectivity in a dispersal-limited ecosystem. <i>Journal of Ecology</i> , 2013 , 101, 1288-1297	6	50
92	Identifying knowledge gaps in seagrass research and management: An Australian perspective. <i>Marine Environmental Research</i> , 2017 , 127, 163-172	3.3	47
91	Phylogeography of the olive sea snake, <i>Aipysurus laevis</i> (Hydrophiinae) indicates Pleistocene range expansion around northern Australia but low contemporary gene flow. <i>Molecular Ecology</i> , 2007 , 16, 3406-22	5.7	46
90	Genetic uniformity in <i>Amphibolis antarctica</i> , a dioecious seagrass. <i>Heredity</i> , 1996 , 76, 578-585	3.6	46
89	Brief communication. Microsatellite loci identified in the seagrass <i>Posidonia oceanica</i> (L.) Delile. <i>Journal of Heredity</i> , 1998 , 89, 562-568	2.4	45
88	Relative information content of polymorphic microsatellites and mitochondrial DNA for inferring dispersal and population genetic structure in the olive sea snake, <i>Aipysurus laevis</i> . <i>Molecular Ecology</i> , 2008 , 17, 3062-77	5.7	44
87	Eelgrass restoration by seed maintains genetic diversity: case study from a coastal bay system. <i>Marine Ecology - Progress Series</i> , 2012 , 448, 223-233	2.6	44
86	Thresholds for morphological response to light reduction for four tropical seagrass species. <i>Ecological Indicators</i> , 2016 , 67, 358-366	5.8	44
85	Molecular phylogenetics and the morphology of the Lycopodiaceae subfamily Huperzioidae supports three genera: <i>Huperzia</i> , <i>Phlegmariurus</i> and <i>Phylloglossum</i> . <i>Molecular Phylogenetics and Evolution</i> , 2016 , 94, 635-657	4.1	39
84	Genetic variation, its assessment and implications to the conservation of seagrasses. <i>Molecular Ecology</i> , 1998 , 7, 793-800	5.7	39
83	Niche breadth and geographical range: ecological compensation for geographical rarity in rainforest frogs. <i>Biology Letters</i> , 2006 , 2, 532-5	3.6	38

82	Radiation of the Australian Salicornioideae (Chenopodiaceae)--based on evidence from nuclear and chloroplast DNA sequences. <i>American Journal of Botany</i> , 2004 , 91, 1387-97	2.7	37
81	The mating system of an hydrophilous angiosperm posidonia australis (Posidoniaceae). <i>American Journal of Botany</i> , 1997 , 84, 621-625	2.7	36
80	Landscape biodiversity correlates with respiratory health in Australia. <i>Journal of Environmental Management</i> , 2018 , 206, 113-122	7.9	35
79	Can bacterial indicators of a grassy woodland restoration inform ecosystem assessment and microbiota-mediated human health?. <i>Environment International</i> , 2019 , 129, 105-117	12.9	33
78	Ecosystem services returned through seagrass restoration. <i>Restoration Ecology</i> , 2016 , 24, 583-588	3.1	33
77	Advancing DNA Barcoding and Metabarcoding Applications for Plants Requires Systematic Analysis of Herbarium CollectionsAn Australian Perspective. <i>Frontiers in Ecology and Evolution</i> , 2018 , 6,	3.7	33
76	Seagrass proliferation precedes mortality during hypo-salinity events: a stress-induced morphometric response. <i>PLoS ONE</i> , 2014 , 9, e94014	3.7	32
75	Transdisciplinary synthesis for ecosystem science, policy and management: The Australian experience. <i>Science of the Total Environment</i> , 2015 , 534, 173-84	10.2	31
74	Spatial patterns of seagrass dispersal and settlement. <i>Diversity and Distributions</i> , 2016 , 22, 1150-1162	5	30
73	Seagrass Restoration Is Possible: Insights and Lessons From Australia and New Zealand. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	30
72	Genetic variation within and between populations of Posidonia australis, a hydrophilous, clonal seagrass. <i>Heredity</i> , 1997 , 79, 408-417	3.6	29
71	High connectivity across environmental gradients and implications for phenotypic plasticity in a marine plant. <i>Marine Ecology - Progress Series</i> , 2011 , 423, 57-67	2.6	29
70	Pleistocene sea level fluctuations and the phylogeography of the dugong in Australian waters. <i>Marine Mammal Science</i> , 2014 , 30, 104-121	1.9	27
69	Disturbance Is an Important Driver of Clonal Richness in Tropical Seagrasses. <i>Frontiers in Plant Science</i> , 2017 , 8, 2026	6.2	22
68	Predicting the cumulative effect of multiple disturbances on seagrass connectivity. <i>Global Change Biology</i> , 2018 , 24, 3093-3104	11.4	21
67	Variation in biogeochemical parameters across intertidal seagrass meadows in the central Great Barrier Reef region. <i>Marine Pollution Bulletin</i> , 2005 , 51, 335-42	6.7	21
66	Phylogenetic analysis of the Australian Salicornioideae (Chenopodiaceae) based on morphology and nuclear DNA. <i>Australian Systematic Botany</i> , 2005 , 18, 89	1	20
65	Ambient soil cation exchange capacity inversely associates with infectious and parasitic disease risk in regional Australia. <i>Science of the Total Environment</i> , 2018 , 626, 117-125	10.2	18

64	Genetic diversity and gene flow in <i>Zostera marina</i> populations surrounding Long Island, New York, USA: No evidence of inbreeding, genetic degradation or population isolation. <i>Aquatic Botany</i> , 2013 , 110, 61-66	1.8	17
63	Re-evaluating species boundaries among members of the <i>Posidonia ostenfeldii</i> species complex (Posidoniaceae) [Morphological and genetic variation. <i>Aquatic Botany</i> , 2000 , 66, 41-56	1.8	17
62	Estimating Mangrove Tree Biomass and Carbon Content: A Comparison of Forest Inventory Techniques and Drone Imagery. <i>Frontiers in Marine Science</i> , 2020 , 6,	4.5	16
61	Environmental Change and Human Health: Can Environmental Proxies Inform the Biodiversity Hypothesis for Protective Microbial Human Contact?. <i>BioScience</i> , 2016 , 66, 1023-1034	5.7	16
60	Ethical Encounters 2015 ,		16
59	Characterisation of polymorphic microsatellite markers in the widespread Australian seagrass, <i>Posidonia australis</i> Hook. f. (Posidoniaceae), with cross-amplification in the sympatric <i>P. sinuosa</i> . <i>Conservation Genetics Resources</i> , 2009 , 1, 273-276	0.8	16
58	Mega Clonality in an Aquatic Plant-A Potential Survival Strategy in a Changing Environment. <i>Frontiers in Plant Science</i> , 2018 , 9, 435	6.2	14
57	Advancing the ethical use of digital data in human research: challenges and strategies to promote ethical practice. <i>Ethics and Information Technology</i> , 2019 , 21, 59-73	3.7	14
56	Older People and Social Participation 2016 ,		13
55	New record for <i>Halophila decipiens</i> Ostenfeld in Kenya based on morphological and molecular evidence. <i>Aquatic Botany</i> , 2009 , 91, 318-320	1.8	11
54	Molecular phylogenetic analysis of the evolution of complex hybridity in <i>Isotoma petraea</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2002 , 56, 1296-302	3.8	11
53	DNA fingerprinting supports notions of clonality in a rare mallee, <i>Eucalyptus argutifolia</i> . <i>Molecular Ecology</i> , 1996 , 5, 693-696	5.7	11
52	Seagrass Evolution, Ecology and Conservation: A Genetic Perspective 2007 , 25-50		11
51	Molecular discrimination of <i>Perna</i> (Mollusca: Bivalvia) species using the polymerase chain reaction and species-specific mitochondrial primers. <i>Marine Biotechnology</i> , 2006 , 8, 380-5	3.4	10
50	Advances in approaches to seagrass restoration in Australia. <i>Ecological Management and Restoration</i> , 2021 , 22, 10-21	1.4	10
49	Could Social Robots Make Us Kinder or Crueller to Humans and Animals?. <i>International Journal of Social Robotics</i> , 2019 , 11, 741-751	4	9
48	Polymorphic microsatellite markers for the Caribbean seagrass <i>Thalassia testudinum</i> Banks ex K&B. <i>Molecular Ecology Notes</i> , 2006 , 7, 89-91		9
47	Guide to Southern Temperate Seagrasses 2014 ,		9

46	Extinction pulse at Eocene-Oligocene boundary drives diversification dynamics of two Australian temperate floras. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20192546	4.4	8
45	Sprouting and genetic structure vary with flood disturbance in the tropical riverine paperbark tree, <i>Melaleuca leucadendra</i> (Myrtaceae). <i>American Journal of Botany</i> , 2013 , 100, 2250-60	2.7	7
44	Differences in resprouting ability are not related to seed size or seedling growth in four riparian woody species. <i>Journal of Ecology</i> , 2007 , 95, 840-850	6	7
43	Isolation and characterisation of polymorphic microsatellite loci in the vulnerable spectacled flying fox, <i>Pteropus conspicillatus</i> . <i>Conservation Genetics</i> , 2007 , 8, 1013-1016	2.6	7
42	Genetic factors in the conservation of seagrasses. <i>Pacific Conservation Biology</i> , 1999 , 5, 269	1.2	7
41	An evidence-based approach for setting desired state in a complex Great Barrier Reef seagrass ecosystem: A case study from Cleveland Bay. <i>Environmental and Sustainability Indicators</i> , 2020 , 7, 100042 ^{2.5}	2.5	7
40	A generic method of engagement to elicit regional coastal management options. <i>Ocean and Coastal Management</i> , 2016 , 124, 22-32	3.9	7
39	Review of Coast and Marine Ecosystems in Temperate Australia Demonstrates a Wealth of Ecosystem Services. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	6
38	Development of multiplex microsatellite PCR panels for the seagrass <i>Thalassia hemprichii</i> (Hydrocharitaceae). <i>Applications in Plant Sciences</i> , 2014 , 2, 1400078	2.3	6
37	Development of microsatellite markers for a tropical seagrass, <i>Syringodium filiforme</i> (Cymodoceaceae). <i>Applications in Plant Sciences</i> , 2014 , 2, 1400082	2.3	6
36	Isolation and characterization of microsatellite loci in <i>Santalum lanceolatum</i> and <i>Santalum leptocladum</i> (Santalaceae). <i>American Journal of Botany</i> , 2010 , 97, e97-8	2.7	6
35	Variation in ribosomal DNA within and between populations of <i>Isotoma petraea</i> and <i>Macrozamia riedlei</i> . <i>Heredity</i> , 1997 , 79, 578-583	3.6	6
34	Experimental Infection and Repeat Survey Data Indicate the Amphibian Chytrid <i>Batrachochytrium dendrobatidis</i> May Not Occur on Freshwater Crustaceans in Northern Queensland, Australia. <i>EcoHealth</i> , 2007 , 4, 31-36	3.1	6
33	Isolation and characterization of microsatellite loci from the Australasian sea snake, <i>Aipysurus laevis</i> . <i>Molecular Ecology Notes</i> , 2005 , 5, 879-881		6
32	Genomic coalescence in a population of <i>laxmannia sessiliflora</i> (Angiospermae, anthericaceae): an association of lethal polymorphism, self-pollination and chromosome number reduction. <i>Heredity</i> , 1999 , 82 Pt 4, 364-72	3.6	6
31	Genetic variation within and between populations of <i>Posidonia australis</i> , a hydrophilous, clonal seagrass		6
30	Historical biogeography of <i>Pomaderris</i> (Rhamnaceae): Continental vicariance in Australia and repeated independent dispersals to New Zealand. <i>Molecular Phylogenetics and Evolution</i> , 2021 , 158, 107485	4.1	6
29	Privacy and the Internet of Things (IoT) Monitoring Solutions for Older Adults: A Review. <i>Studies in Health Technology and Informatics</i> , 2018 , 252, 8-14	0.5	6

28	Reticulate Evolution, Ancient Chloroplast Haplotypes, and Rapid Radiation of the Australian Plant Genus <i>Adenanthos</i> (Proteaceae). <i>Frontiers in Ecology and Evolution</i> , 2021 , 8,	3.7	5
27	Virtual visits: Reminiscence in residential aged care with digital mapping technologies. <i>Australasian Journal on Ageing</i> , 2021 , 40, 293-300	1.5	5
26	Seagrass Evolution, Ecology and Conservation: A Genetic Perspective 25-50		5
25	A resourceful and adaptable method to obtain data on the status of seagrass meadows. <i>Aquatic Botany</i> , 2017 , 141, 17-21	1.8	4
24	Evolution and Biogeography of Seagrasses 2018 , 3-29		4
23	Systematics and Evolution of Australian Seagrasses in a Global Context 2018 , 129-154		4
22	Methods for assessing seagrass seed ecology and population genetics 2001 , 123-140		4
21	How older adults respond to the use of Virtual Reality for enrichment: a systematic review 2020 ,		4
20	Range-wide population genetic structure of the Caribbean marine angiosperm. <i>Ecology and Evolution</i> , 2018 , 8, 9478-9490	2.8	4
19	Population structure and gene flow of the tropical seagrass, <i>Syringodium filiforme</i> , in the Florida Keys and subtropical Atlantic region. <i>PLoS ONE</i> , 2018 , 13, e0203644	3.7	4
18	A muddy time capsule: using sediment environmental DNA for the long-term monitoring of coastal vegetated ecosystems. <i>Marine and Freshwater Research</i> , 2020 , 71, 869	2.2	3
17	How important is the coast? A survey of coastal objectives in an Australian regional city. <i>Marine Policy</i> , 2016 , 71, 229-241	3.5	3
16	Seagrasses of Southern and South-Western Australia 2018 , 61-89		3
15	Microsatellite markers in the Australian desert plant, <i>Solanum centrale</i> (Solanaceae). <i>American Journal of Botany</i> , 2011 , 98, e81-3	2.7	3
14	Postdisaster Posttraumatic Growth: Positive Transformations Following the Black Saturday Bushfires. <i>Australian Social Work</i> , 2018 , 71, 417-429	1.2	3
13	Genetic Connectivity in Tropical and Temperate Australian Seagrass Species 2018 , 155-194		2
12	New microsatellite markers for the seagrass <i>Amphibolis antarctica</i> reveal unprecedented genetic diversity. <i>Aquatic Botany</i> , 2018 , 148, 25-28	1.8	2
11	A phylogeny of the tribe Caraganeae (Fabaceae) based on DNA sequence data from ITS. <i>Feddes Repertorium</i> , 2014 , 125, 78-84	0.4	2

10	Regional genetic differentiation in the spectacled flying fox (<i>Pteropus conspicillatus</i> Gould) 2012 ,		2
9	Genomics-Based Phylogenetic and Population Genetic Analysis of Global Samples Confirms <i>Halophila johnsonii</i> Eiseman as <i>Halophila ovalis</i> (R.Br.) Hook.f.. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	2
8	Genomic Screening Reveals That the Endangered <i>Eucalyptus paludicola</i> (Myrtaceae) Is a Hybrid. <i>Diversity</i> , 2020 , 12, 468	2.5	2
7	Effective application of next-generation sequencing (NGS) approaches in systematics and population genetics: case studies in <i>Eucalyptus</i> and <i>Acacia</i> . <i>Australian Systematic Botany</i> , 2016 , 29, 235	1	2
6	A hybrid capture RNA bait set for resolving genetic and evolutionary relationships in angiosperms from deep phylogeny to intraspecific lineage hybridization		2
5	Privacy in Aged Care Monitoring Devices (ACMD): The Developers' Perspective. <i>Studies in Health Technology and Informatics</i> , 2019 , 266, 7-12	0.5	1
4	Phylogenomics and continental biogeographic disjunctions - insight from the Australian starflowers (<i>Calytrix</i>). <i>American Journal of Botany</i> , 2021 ,	2.7	1
3	Genetic mosaicism and population connectivity of edge-of-range <i>Halodule wrightii</i> populations. <i>Aquatic Botany</i> , 2020 , 161, 103161	1.8	1
2	Susan Lynn Williams: the Life of an Exceptional Scholar, Leader, and Friend (1951-2018). <i>Estuaries and Coasts</i> , 2021 , 44, 304-311	2.8	1
1	A targeted capture approach to generating reference sequence databases for chloroplast gene regions.. <i>Ecology and Evolution</i> , 2022 , 12, e8816	2.8	1