

David J Ayre

List of Publications by Year in descending order

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119
papers

4,483
citations

94433

37
h-index

118850

62
g-index

120
all docs

120
docs citations

120
times ranked

3414
citing authors

#	ARTICLE	IF	CITATIONS
1	GENOTYPIC DIVERSITY AND GENE FLOW IN BROODING AND SPAWNING CORALS ALONG THE GREAT BARRIER REEF, AUSTRALIA. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1590-1605.	2.3	361
2	Climate change, genotypic diversity and gene flow in reef-building corals. <i>Ecology Letters</i> , 2004, 7, 273-278.	6.4	214
3	The Role of Hybridization in the Evolution of Reef Corals. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2006, 37, 489-517.	8.3	206
4	Does life history predict past and current connectivity for rocky intertidal invertebrates across a marine biogeographic barrier?. <i>Molecular Ecology</i> , 2009, 18, 1887-1903.	3.9	187
5	The evolutionary ecology of corals. <i>Trends in Ecology and Evolution</i> , 1992, 7, 292-295.	8.7	171
6	Factors controlling fruit set in hermaphroditic plants: Studies with the Australian proteaceae. <i>Trends in Ecology and Evolution</i> , 1989, 4, 267-272.	8.7	133
7	The role of sexual and asexual reproduction in structuring high latitude populations of the reef coral <i>Pocillopora damicornis</i> . <i>Heredity</i> , 2004, 92, 557-568.	2.6	122
8	Genetic differentiation, reproductive mode, and gene flow in the brooding coral <i>Pocillopora damicornis</i> along the Great Barrier Reef, Australia. <i>Marine Ecology - Progress Series</i> , 1997, 159, 175-187.	1.9	113
9	Asexual reproduction and genetic determination of growth form in the coral <i>Pavona cactus</i> : biochemical genetic and immunogenic evidence. <i>Oecologia</i> , 1985, 65, 516-525.	2.0	106
10	EVIDENCE FOR RESTRICTED GENE FLOW IN THE VIVIPAROUS CORAL <i>SERIATOPORA HYSTRIX</i> ON AUSTRALIA'S GREAT BARRIER REEF. <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 1183-1201.	2.3	91
11	The effects of sexual and asexual reproduction on geographic variation in the sea anemone <i>Actinia tenebrosa</i> . <i>Oecologia</i> , 1984, 62, 222-229.	2.0	90
12	Population structure is not a simple function of reproductive mode and larval type: insights from tropical corals. <i>Journal of Animal Ecology</i> , 2008, 77, 713-724.	2.8	82
13	Microsatellite diversity and genetic structure of fragmented populations of the rare, fire-dependent shrub <i>Grevillea macleayana</i> . <i>Molecular Ecology</i> , 2002, 11, 967-977.	3.9	72
14	Patterns of hybridization and asymmetrical gene flow in hybrid zones of the rare <i>Eucalyptus aggregata</i> and common <i>E. rubida</i> . <i>Heredity</i> , 2011, 106, 841-853.	2.6	72
15	Physical dormancy in a changing climate. <i>Seed Science Research</i> , 2015, 25, 66-81.	1.7	70
16	Is life history a barrier to dispersal? Contrasting patterns of genetic differentiation along an oceanographically complex coast. <i>Biological Journal of the Linnean Society</i> , 2008, 95, 106-116.	1.6	65
17	Where do clonal coral larvae go? Adult genotypic diversity conflicts with reproductive effort in the brooding coral <i>Pocillopora damicornis</i> . <i>Marine Ecology - Progress Series</i> , 2004, 277, 95-105.	1.9	65
18	Protection of Genetic Diversity and Maintenance of Connectivity among Reef Corals within Marine Protected Areas. <i>Conservation Biology</i> , 2008, 22, 1245-1254.	4.7	61

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19	Panmixia in <i>Pocillopora verrucosa</i> from South Africa. <i>Marine Biology</i> , 2001, 139, 175-181.	1.5	60
20	The effects of asexual reproduction and inter-genotypic aggression on the genotypic structure of populations of the sea anemone <i>Actinia tenebrosa</i> . <i>Oecologia</i> , 1983, 57, 158-165.	2.0	59
21	A Molecular Genetic Assessment of Mating-System Variation in a Naturally Bird-Pollinated Shrub: Contributions from Birds and Introduced Honeybees. <i>Conservation Biology</i> , 2001, 15, 1645-1655.	4.7	58
22	Reproductive success and pollinator effectiveness differ in common and rare <i>Persoonia</i> species (Proteaceae). <i>Biological Conservation</i> , 2005, 123, 521-532.	4.1	58
23	Aggression, Habituation, and Clonal Coexistence in the Sea Anemone <i>Anthopleura elegantissima</i> . <i>American Naturalist</i> , 1995, 146, 427-453.	2.1	57
24	Relative frequency of sympatric species influences rates of interspecific hybridization, seed production and seedling performance in the uncommon <i>Eucalyptus aggregata</i> . <i>Journal of Ecology</i> , 2008, 96, 1198-1210.	4.0	55
25	Asexual reproduction does not produce clonal populations of the brooding coral <i>Pocillopora damicornis</i> on the Great Barrier Reef, Australia. <i>Coral Reefs</i> , 2006, 25, 7-18.	2.2	51
26	LOCALIZED ADAPTATION OF CLONES OF THE SEA ANEMONE <i>ACTINIA TENEBROSA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1985, 39, 1250-1260.	2.3	50
27	Evidence for Restricted Gene Flow in the Viviparous Coral <i>Seriatopora hystrix</i> on Australia's Great Barrier Reef. <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 1183.	2.3	50
28	Radiocarbon bomb spike reveals biological effects of Antarctic climate change. <i>Global Change Biology</i> , 2012, 18, 301-310.	9.5	49
29	Evidence for ancient genetic subdivision among recently fragmented populations of the endangered shrub <i>Grevillea caleyi</i> (Proteaceae). <i>Heredity</i> , 2004, 92, 519-526.	2.6	48
30	Marine genetic swamping: hybrids replace an obligately estuarine fish. <i>Molecular Ecology</i> , 2010, 19, 508-520.	3.9	47
31	The corals <i>Acropora palifera</i> and <i>Acropora cuneata</i> are genetically and ecologically distinct. <i>Coral Reefs</i> , 1991, 10, 13-18.	2.2	46
32	Genetic variation and reproductive success of road verge populations of the rare shrub <i>Grevillea barklyana</i> (Proteaceae). <i>Heredity</i> , 1998, 80, 180-186.	2.6	46
33	Unexpectedly high levels of selfing in the Australian shrub <i>Grevillea barklyana</i> (Proteaceae). <i>Heredity</i> , 1994, 72, 168-174.	2.6	45
34	Rocky intertidal temperature variability along the southeast coast of Australia: comparing data from in situ loggers, satellite-derived SST and terrestrial weather stations. <i>Marine Ecology - Progress Series</i> , 2011, 439, 83-95.	1.9	45
35	High-Levels of Outcrossing in Populations of <i>Banksia spinulosa</i> R.Br. and <i>Banksia paludosa</i> Smith. <i>Australian Journal of Botany</i> , 1988, 36, 217.	0.6	44
36	The birds and the bees: pollinator behaviour and variation in the mating system of the rare shrub <i>Grevillea macleayana</i> . <i>Annals of Botany</i> , 2009, 103, 1395-1401.	2.9	44

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37	The importance of pre-mating barriers and the local demographic context for contemporary mating patterns in hybrid zones of <i>Eucalyptus aggregata</i> and <i>Eucalyptus rubida</i> . <i>Molecular Ecology</i> , 2011, 20, 2367-2379.	3.9	44
38	FINE-SCALE ADAPTATION IN A CLONAL SEA ANEMONE. <i>Evolution; International Journal of Organic Evolution</i> , 2008, 62, 1373-1380.	2.3	41
39	Is the species composition of rocky intertidal invertebrates across a biogeographic barrier in south-eastern Australia related to their potential for dispersal?. <i>Marine and Freshwater Research</i> , 2007, 58, 835.	1.3	37
40	Localized Adaptation of Sea Anemone Clones: Evidence from Transplantation Over Two Spatial Scales. <i>Journal of Animal Ecology</i> , 1995, 64, 186.	2.8	36
41	Antibody regulation in birds by thyroid hormones. <i>Developmental and Comparative Immunology</i> , 1980, 4, 323-330.	2.3	34
42	Behind anemone lines: factors affecting division of labour in the social cnidarian <i>Anthopleura elegantissima</i> . <i>Animal Behaviour</i> , 2005, 70, 97-110.	1.9	34
43	Molecular and morphological evidence of natural interspecific hybridization between the uncommon <i>Eucalyptus aggregata</i> and the widespread <i>E. rubida</i> and <i>E. viminalis</i> . <i>Conservation Genetics</i> , 2009, 10, 881-896.	1.5	34
44	Temperature variability at the larval scale affects early survival and growth of an intertidal barnacle. <i>Marine Ecology - Progress Series</i> , 2013, 475, 155-166.	1.9	34
45	Identifying the Real Pollinators? Exotic Honeybees Are the Dominant Flower Visitors and Only Effective Pollinators of <i>Avicennia marina</i> in Australian Temperate Mangroves. <i>Estuaries and Coasts</i> , 2014, 37, 621-635.	2.2	34
46	Genetic structure of seedling cohorts following repeated wildfires in the fire-sensitive shrub <i>Persoonia mollis</i> ssp. <i>nectens</i> . <i>Journal of Ecology</i> , 2009, 97, 752-760.	4.0	32
47	Using infrared imagery to test for quadrat-level temperature variation and effects on the early life history of a rocky-shore barnacle. <i>Limnology and Oceanography</i> , 2012, 57, 1279-1291.	3.1	32
48	Pollinator behaviour, mate choice and the realised mating systems of <i>Grevillea mucronulata</i> and <i>Grevillea sphacelata</i> . <i>Australian Journal of Botany</i> , 2000, 48, 357.	0.6	28
49	Urban Plants as Genetic Reservoirs or Threats to the Integrity of Bushland Plant Populations. <i>Conservation Biology</i> , 2007, 21, 842-852.	4.7	28
50	The Effect of Local Plant Density on Pollinator Behavior and the Breeding System of <i>Persoonia bargoensis</i> (Proteaceae). <i>International Journal of Plant Sciences</i> , 2005, 166, 969-977.	1.3	26
51	Effects of social organization on inter-clonal dominance relationships in the sea anemone. <i>Animal Behaviour</i> , 1996, 51, 1233-1245.	1.9	25
52	Estimating latitudinal variability in extreme heat stress on rocky intertidal shores. <i>Journal of Biogeography</i> , 2014, 41, 1478-1491.	3.0	24
53	Habitat fragmentation leads to reduced pollinator visitation, fruit production and recruitment in urban mangrove forests. <i>Oecologia</i> , 2017, 185, 221-231.	2.0	24
54	Effects of seed bank disturbance on the fine-scale genetic structure of populations of the rare shrub <i>Grevillea macleayana</i> . <i>Heredity</i> , 2003, 91, 475-480.	2.6	23

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55	The potential for genetic contamination vs. augmentation by native plants in urban gardens. <i>Biological Conservation</i> , 2006, 128, 493-500.	4.1	23
56	Genetic structure of East Antarctic populations of the moss <i>Ceratodon purpureus</i> . <i>Antarctic Science</i> , 2009, 21, 51-58.	0.9	23
57	Tests for inbreeding and outbreeding depression and estimation of population differentiation in the bird-pollinated shrub <i>Grevillea mucronulata</i> . <i>Annals of Botany</i> , 2011, 108, 185-195.	2.9	23
58	The use of digital video recorders in pollination biology. <i>Ecological Entomology</i> , 2017, 42, 383-388.	2.2	23
59	Random mating in the brooding coral <i>Acropora palifera</i> . <i>Marine Ecology - Progress Series</i> , 2006, 307, 155-160.	1.9	22
60	Using biomimetic loggers to measure interspecific and microhabitat variation in body temperatures of rocky intertidal invertebrates. <i>Marine and Freshwater Research</i> , 2015, 66, 86.	1.3	20
61	Population subdivision in Australian temperate marine invertebrates: Larval connections versus historical factors*. <i>Austral Ecology</i> , 1990, 15, 403-411.	1.5	19
62	Panmictic population structure in the migratory marine sparid <i>Acanthopagrus australis</i> despite its close association with estuaries. <i>Marine Ecology - Progress Series</i> , 2010, 412, 223-230.	1.9	19
63	Calling Tactics in <i>Crinia georgiana</i> (Anura: Myobatrachidae): Alternation and Variation in Call Duration. <i>Australian Journal of Zoology</i> , 1984, 32, 463.	1.0	18
64	Genetic evidence of variation in the contributions of sexual and asexual reproduction to populations of the freshwater ostracod <i>Candonocypris novaezelandiae</i> . <i>Freshwater Biology</i> , 1989, 22, 275-284.	2.4	18
65	Anthropogenic fragmentation may not alter pre-existing patterns of genetic diversity and differentiation in perennial shrubs. <i>Molecular Ecology</i> , 2018, 27, 1541-1555.	3.9	18
66	Experimental Confirmation of Preferential Outcrossing in <i>Banksia</i> . <i>International Journal of Plant Sciences</i> , 1996, 157, 615-620.	1.3	18
67	Supply-side biogeography: geographic patterns of settlement and early mortality for a barnacle approaching its range limit. <i>Marine Ecology - Progress Series</i> , 2010, 412, 141-150.	1.9	18
68	SELF-RECOGNITION IN SPONGES AND CORALS?. <i>Evolution; International Journal of Organic Evolution</i> , 1985, 39, 461-463.	2.3	17
69	Microsatellites in the Australian shrub <i>Grevillea macleayana</i> (Proteaceae). <i>Molecular Ecology</i> , 1999, 8, 689-690.	3.9	17
70	Patterns of demography for rocky-shore, intertidal invertebrates approaching their geographical range limits: tests of the abundant-centre hypothesis in south-eastern Australia. <i>Marine and Freshwater Research</i> , 2010, 61, 1243.	1.3	17
71	GENOTYPIC DIVERSITY AND GENE FLOW IN BROODING AND SPAWNING CORALS ALONG THE GREAT BARRIER REEF, AUSTRALIA. <i>Evolution; International Journal of Organic Evolution</i> , 2000, 54, 1590.	2.3	16
72	Do reproductive tactics vary with habitat heterogeneity in the intertidal sea anemone <i>Actinia tenebrosa</i> ?. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 340, 259-267.	1.5	16

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73	Somatic mutation and the Antarctic ozone hole. <i>Journal of Ecology</i> , 2008, 96, 378-385.	4.0	16
74	The accumulation of genetic diversity within a canopy-stored seed bank. <i>Molecular Ecology</i> , 2010, 19, 2640-2650.	3.9	16
75	Is the post-disturbance composition of a plant population determined by selection for outcrossed seedlings or by the composition of the seedbank?. <i>Heredity</i> , 2014, 112, 409-414.	2.6	16
76	Patterns of genotypic diversity suggest a long history of clonality and population isolation in the Australian arid zone shrub <i>Acacia carneorum</i> . <i>Plant Ecology</i> , 2014, 215, 55-71.	1.6	16
77	Biogeographical patterns of rocky shore community structure in south-east Australia: effects of oceanographic conditions and heat stress. <i>Journal of Biogeography</i> , 2015, 42, 1538-1552.	3.0	16
78	Can the pollination biology and floral ontogeny of the threatened <i>Acacia carneorum</i> explain its lack of reproductive success?. <i>Ecological Research</i> , 2014, 29, 225-235.	1.5	15
79	Small Urban Stands of the Mangrove <i>Avicennia marina</i> are Genetically Diverse but Experience Elevated Inbreeding. <i>Estuaries and Coasts</i> , 2015, 38, 1898-1907.	2.2	15
80	Localized Adaptation of Clones of the Sea Anemone <i>Actinia tenebrosa</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1985, 39, 1250.	2.3	14
81	A rapid and accurate visual assessment of nectar production can reveal patterns of temporal variation in <i>Banksia ericifolia</i> (Proteaceae). <i>Australian Journal of Botany</i> , 2002, 50, 595.	0.6	13
82	Asexual reproduction and genetic determination of colour patterns within populations of the subtidal sea anemone <i>Anthothoe albocincta</i> . <i>Marine Ecology - Progress Series</i> , 1997, 156, 121-130.	1.9	13
83	Evidence for genetic determination of sex in <i>Actinia tenebrosa</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 1988, 116, 23-34.	1.5	12
84	Can limited dispersal or biotic interaction explain the declining abundance of the whelk, <i>Morula marginalba</i> , at the edge of its range?. <i>Biological Journal of the Linnean Society</i> , 2011, 103, 849-862.	1.6	12
85	Are there magnet plants in Australian ecosystems: Pollinator visits to neighbouring plants are not affected by proximity to mass flowering plants. <i>Basic and Applied Ecology</i> , 2019, 35, 34-44.	2.7	12
86	Effects of Chronic Tobacco Smoke Exposure on Immune Responses in Aged Mice. <i>Archives of Environmental Health</i> , 1981, 36, 201-207.	0.4	11
87	Does genetic variation and gene flow vary with rarity in obligate seeding <i>Persoonia</i> species (Proteaceae)?. <i>Conservation Genetics</i> , 2006, 7, 919-930.	1.5	11
88	Despite prolonged association in closed populations, an intertidal predator does not prefer abundant local prey to novel prey. <i>Biological Journal of the Linnean Society</i> , 2013, 108, 812-820.	1.6	11
89	The sea anemone <i>Actinia tenebrosa</i> : An opportunistic insectivore. <i>Ophelia</i> , 1984, 23, 149-153.	0.3	9
90	Varying levels of clonality and ploidy create barriers to gene flow and challenges for conservation of an Australian arid-zone ecosystem engineer, <i>Acacia loderi</i> . <i>Biological Journal of the Linnean Society</i> , 2016, 118, 330-343.	1.6	9

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91	Seedling performance covaries with dormancy thresholds: maintaining cryptic seed heteromorphism in a fire-prone system. <i>Ecology</i> , 2016, 97, 3009-3018.	3.2	9
92	THE FORMATION OF CLONAL TERRITORIES IN EXPERIMENTAL POPULATIONS OF THE SEA ANEMONE ACTINIA TENEBROSA. <i>Biological Bulletin</i> , 1987, 172, 178-186.	1.8	8
93	Microsatellite markers for vulnerable Australian aridzone Acacias. <i>Conservation Genetics Resources</i> , 2013, 5, 199-201.	0.8	8
94	Temporal stability of a hybrid swarm between the migratory marine and estuarine fishes <i>Acanthopagrus australis</i> and <i>A. butcheri</i> . <i>Marine Ecology - Progress Series</i> , 2011, 421, 199-204.	1.9	8
95	Ecology and genetics of <i>Grevillea</i> (Proteaceae): implications for conservation of fragmented populations. , 2000, , 253-270.		7
96	Does provenance matter? Fitness is not determined by genetic distance or the scale of pollen dispersal in <i>Grevillea sphacelata</i> (Proteaceae). <i>Botanical Journal of the Linnean Society</i> , 2013, 173, 290-302.	1.6	7
97	Clonality disguises the vulnerability of a threatened arid zone Acacia. <i>Ecology and Evolution</i> , 2017, 7, 9451-9460.	1.9	7
98	Do mass flowering agricultural species affect the pollination of Australian native plants through localised depletion of pollinators or pollinator spillover effects?. <i>Agriculture, Ecosystems and Environment</i> , 2019, 277, 83-94.	5.3	7
99	Isoenzymes from Hulls and Seeds of Developing Pea Fruits. <i>Journal of Plant Physiology</i> , 1987, 127, 193-201.	3.5	6
100	Window of opportunity: an episode of recruitment in a <i>Banksia</i> hybrid zone demonstrates continuing hybridization and phenotypic plasticity. <i>Annals of Botany</i> , 2010, 105, 419-429.	2.9	6
101	Long inter-fire intervals do not guarantee a large seed bank in a serotinous shrub (<i>Banksia spinulosa</i>) <i>Tj ETQq1 1 0,784314,rgBT /Over</i>	4.0	6
102	Genetic variation and reproductive success of road verge populations of the rare shrub <i>Grevillea barklyana</i> (Proteaceae). <i>Heredity</i> , 1998, 80, 180-186.	2.6	6
103	Genetic tests of the isolation of rare coastal dwarf populations of <i>Banksia spinulosa</i> . <i>Australian Journal of Botany</i> , 2010, 58, 637.	0.6	6
104	Abundance of <i>Tesseropora rosea</i> at the margins of its biogeographic range is closely linked to recruitment, but not fecundity. <i>Marine Ecology - Progress Series</i> , 2013, 483, 199-208.	1.9	6
105	Microsatellites for eastern Australian <i>Banksia</i> species. <i>Molecular Ecology Notes</i> , 2005, 5, 821-823.	1.7	5
106	Diet and feeding periodicity of Cox's gudgeon <i>Gobiomorphus coxii</i> (Krefft) in a south-eastern Australian stream. <i>Journal of Fish Biology</i> , 2007, 71, 993-1006.	1.6	5
107	Do introduced honeybees affect seed set and seed quality in a plant adapted for bird pollination?. <i>Journal of Plant Ecology</i> , 0, , rtw064.	2.3	5
108	Genetic differentiation in the barnacle <i>Catomerus polymerus</i> despite migration across a biogeographic barrier. <i>Marine Ecology - Progress Series</i> , 2015, 524, 213-224.	1.9	5

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109	Effects of chronic tobacco smoke exposure from high-tar or low-tar cigarettes on the systemic clearance mechanisms of mice. <i>Environmental Research</i> , 1980, 23, 429-443.	7.5	4
110	Microsatellite primers for Australian recreationally and commercially important estuarine fishes. <i>Journal of Fish Biology</i> , 2014, 84, 273-281.	1.6	4
111	Microsatellite Primers for Vulnerable and Thriving Acacia (Fabaceae) Species from Australia's Arid Zone. <i>Applications in Plant Sciences</i> , 2015, 3, 1400121.	2.1	4
112	Gamete compatibility between marine and estuarine <i>Acanthopagrus</i> spp. (Sparidae) and their hybrids. <i>Journal of Fish Biology</i> , 2010, 77, 425-431.	1.6	2
113	Modelling the differences between El Niño and La Niña years and planktonic larval duration on dispersal across the southeast Australian biogeographic barrier. <i>Geo: Geography and Environment</i> , 2019, 6, e00074.	0.8	2
114	Low Genetic Differentiation despite Fragmentation in an Endangered Fire-Sensitive Shrub. <i>International Journal of Plant Sciences</i> , 2021, 182, 229-237.	1.3	2
115	Is There a Relationship between Multilocus Homozygosity and Dominance Rank in Sea Anemones? A Reply to Zeh and Zeh. <i>American Naturalist</i> , 1997, 149, 790-793.	2.1	1
116	Isolation and Lack of Potential Mates may Threaten an Endangered Arid-Zone Acacia. <i>Journal of Heredity</i> , 2019, 110, 738-745.	2.4	1
117	High adult mortality and failure of recruitment in a population of <i>Banksia spinulosa</i> following high-intensity fire. <i>Austral Ecology</i> , 0, , .	1.5	1
118	Characterisation of 13 polymorphic microsatellite markers for <i>Trachinops caudimaculatus</i> (McCoy). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	0.8	0
119	Characterization of 11 Polymorphic Microsatellite Markers for Black Drummer (<i>Girella elevata</i>) Developed Using 454 Next-Generation Sequencing. <i>Journal of Heredity</i> , 2016, 107, 670-673.	2.4	0