Andrew J Lowe

List of Publications by Year
in descending order

138 papers	10,264 citations	50276 46 h-index	38395 95 g-index
145 all docs	145 docs citations	145 times ranked	14021 citing authors

#	Article	IF	Citations
1	Rare genera differentiate urban green space soil bacterial communities in three cities across the world. Access Microbiology, 2022, 4, 000320.	0.5	2
2	Transfer of environmental microbes to the skin and respiratory tract of humans after urban green space exposure. Environment International, 2020, 145, 106084.	10.0	103
3	A Vegetation and Soil Survey Method for Surveillance Monitoring of Rangeland Environments. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	28
4	Revegetation of urban green space rewilds soil microbiotas with implications for human health and urban design. Restoration Ecology, 2020, 28, S322.	2.9	43
5	Plants, position and pollination: Planting arrangement and pollination limitation in a revegetated eucalypt woodland. Ecological Management and Restoration, 2019, 20, 222-230.	1.5	1
6	Response to Comments on â€œThe global tree restoration potentialâ€• Science, 2019, 366, .	12.6	20
7	Relating Urban Biodiversity to Human Health With the â€˜Holobiontâ€™ Concept. Frontiers in Microbiology, 2019, 10, 550.	3.5	64
8	Plant and ant assemblages predicted to decouple under climate change. Diversity and Distributions, 2019, 25, 551-567.	4.1	17
9	Clumped planting arrangements improve seed production in a revegetated eucalypt woodland. Restoration Ecology, 2019, 27, 638-646.	2.9	6
10	Applicability of chloroplast DNA barcodes for wood identification between Santalum album and its adulterants. Holzforschung, 2019, 73, 209-218.	1.9	12
11	Standardized genetic diversityâ€“life history correlates for improved genetic resource management of Neotropical trees. Diversity and Distributions, 2018, 24, 730-741.	4.1	21
12	Spatially designed revegetationâ€”why the spatial arrangement of plants should be as important to revegetation as they are to natural systems. Restoration Ecology, 2018, 26, 446-455.	2.9	17
13	When macroecological transitions are a fiction of sampling: comparing herbarium records to plotâ€based species inventory data. Ecography, 2018, 41, 1864-1875.	4.5	15
14	Landscape biodiversity correlates with respiratory health in Australia. Journal of Environmental Management, 2018, 206, 113-122.	7.8	50
15	The biodiversity impacts of non-native species should not be extrapolated from biased single-species studies. Biodiversity and Conservation, 2018, 27, 785-790.	2.6	36
16	High-throughput eDNA monitoring of fungi to track functional recovery in ecological restoration. Biological Conservation, 2018, 217, 113-120.	4.1	81
17	Measuring genome-wide genetic variation to reassess subspecies classifications in Dodonaea viscosa (Sapindaceae). Australian Journal of Botany, 2018, 66, 287.	0.6	5
18	Advancing DNA Barcoding and Metabarcoding Applications for Plants Requires Systematic Analysis of Herbarium Collectionsâ€”An Australian Perspective. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	55

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19	Floristic and structural assessment of Australian rangeland vegetation with standardized plot-based surveys. PLoS ONE, 2018, 13, e0202073.	2.5	11
20	Functional acclimation across microgeographic scales in Dodonaea viscosa. AoB PLANTS, 2018, 10, ply029.	2.3	3
21	Priority Actions to Improve Provenance Decision-Making. BioScience, 2018, 68, 510-516.	4.9	87
22	Networked and embedded scientific experiments will improve restoration outcomes. Frontiers in Ecology and the Environment, 2018, 16, 288-294.	4.0	43
23	Revegetation rewilds the soil bacterial microbiome of an old field. Molecular Ecology, 2017, 26, 2895-2904.	3.9	68
24	Leaf trait associations with environmental variation in the wideâ€ranging shrub Dodonaea viscosa subsp. angustissima (Sapindaceae). Austral Ecology, 2017, 42, 553-561.	1.5	24
25	The extent of forest in dryland biomes. Science, 2017, 356, 635-638.	12.6	300
26	Response to Comment on â€œThe extent of forest in dryland biomesâ€• Science, 2017, 358, .	12.6	11
27	Urban habitat restoration provides a human health benefit through microbiome rewilding: the Microbiome Rewilding Hypothesis. Restoration Ecology, 2017, 25, 866-872.	2.9	129
28	Bacterial natural product biosynthetic domain composition in soil correlates with changes in latitude on a continent-wide scale. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11615-11620.	7.1	53
29	Publish openly but responsibly. Science, 2017, 357, 141-141.	12.6	20
30	Bioclimatic transect networks: Powerful observatories of ecological change. Ecology and Evolution, 2017, 7, 4607-4619.	1.9	29
31	Targeted capture to assess neutral genomic variation in the narrow-leaf hopbush across a continental biodiversity refugium. Scientific Reports, 2017, 7, 41367.	3.3	23
32	Response to Comment on â€œThe extent of forest in dryland biomesâ€• Science, 2017, 358, 881-881.	12.6	11
33	Response to Comment on â€œThe extent of forest in dryland biomesâ€• Science, 2017, 358, .	12.6	9
34	Genetic diversity and structure of the Australian flora. Diversity and Distributions, 2017, 23, 41-52.	4.1	56
35	Opportunities for Integrated Ecological Analysis across Inland Australia with Standardised Data from Ausplots Rangelands. PLoS ONE, 2017, 12, e0170137.	2.5	30
36	Leaf nitrogen from first principles: field evidence for adaptive variation with climate. Biogeosciences, 2017, 14, 481-495.	3.3	75

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37	Weed abundance is positively correlated with native plant diversity in grasslands of southern Australia. PLoS ONE, 2017, 12, e0178681.	2.5	29
38	Occasional hybridization between a native and invasiveSeneciospecies in Australia is unlikely to contribute to invasive success. PeerJ, 2017, 5, e3630.	2.0	1
39	Building a Plant DNA Barcode Reference Library for a Diverse Tropical Flora: An Example from Queensland, Australia. Diversity, 2016, 8, 5.	1.7	15
40	Opportunities for Improved Transparency in the Timber Trade through Scientific Verification. BioScience, 2016, 66, 990-998.	4.9	60
41	Introducing BASE: the Biomes of Australian Soil Environments soil microbial diversity database. GigaScience, 2016, 5, 21.	6.4	204
42	Effective application of next-generation sequencing (NGS) approaches in systematics and population genetics: case studies in Eucalyptus and Acacia. Australian Systematic Botany, 2016, 29, 235.	0.9	3
43	Restoration: 'Garden of Eden' unrealistic. Nature, 2016, 533, 469-469.	27.8	14
44	Local maladaptation in a foundation tree species: Implications for restoration. Biological Conservation, 2016, 203, 226-232.	4.1	29
45	Finding needles in a genomic haystack: targeted capture identifies clear signatures of selection in a nonmodel plant species. Molecular Ecology, 2016, 25, 4216-4233.	3.9	25
46	Forest reference emission level and carbon sequestration in Cambodia. Global Ecology and Conservation, 2016, 7, 82-96.	2.1	20
47	Height differences in two eucalypt provenances with contrasting levels of aridity. Restoration Ecology, 2016, 24, 471-478.	2.9	5
48	Bridging the gap: a genetic assessment framework for populationâ€level threatened plant conservation prioritization and decisionâ€making. Diversity and Distributions, 2016, 22, 174-188.	4.1	105
49	Assessment of carbon stocks of semi-evergreen forests in Cambodia. Global Ecology and Conservation, 2016, 5, 34-47.	2.1	13
50	AusPlots Rangelands field data collection and publication: Infrastructure for ecological monitoring. Future Generation Computer Systems, 2016, 56, 537-549.	7.5	21
51	Constraints to and conservation implications for climate change adaptation in plants. Conservation Genetics, 2016, 17, 305-320.	1.5	122
52	Identifying Centres of Plant Biodiversity in South Australia. PLoS ONE, 2016, 11, e0144779.	2.5	40
53	Mapping phylogenetic endemism in R using georeferenced branch extents. SoftwareX, 2015, 3-4, 22-26.	2.6	13
54	Transcriptome sequencing, annotation and polymorphism detection in the hop bush, Dodonaea viscosa. BMC Genomics, 2015, 16, 803.	2.8	9

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55	Hybrid swarms: catalysts for multiple evolutionary events inSenecioin the British Isles. Plant Ecology and Diversity, 2015, 8, 449-463.	2.4	9
56	A georeferenced implementation of weighted endemism. Methods in Ecology and Evolution, 2015, 6, 845-852.	5.2	31
57	â€˜Sum of inverse range-sizesâ€™ (SIR), a biodiversity metric with many names and interpretations. Biodiversity and Conservation, 2015, 24, 2877-2882.	2.6	27
58	Forensic timber identification: It's time to integrate disciplines to combat illegal logging. Biological Conservation, 2015, 191, 790-798.	4.1	176
59	Using phylogenetic diversity to identify ancient rain forest refugia and diversification zones in a biodiversity hotspot. Diversity and Distributions, 2015, 21, 279-289.	4.1	50
60	Genetic analysis of the dry forest timber tree Sideroxylon capiri in Costa Rica using AFLP. Plant Systematics and Evolution, 2015, 301, 15-23.	0.9	6
61	Genetic Bottlenecks in Time and Space: Reconstructing Invasions from Contemporary and Historical Collections. PLoS ONE, 2014, 9, e106874.	2.5	16
62	The founding charter of the Genomic Observatories Network. GigaScience, 2014, 3, 2.	6.4	51
63	A spatially predictive baseline for monitoring multivariate species occurrences and phylogenetic shifts in mediterranean southern Australia. Journal of Vegetation Science, 2014, 25, 338-348.	2.2	16
64	Foundations for the future: A longâ€term plan for <scp>A</scp>ustralian ecosystem science. Austral Ecology, 2014, 39, 739-748.	1.5	17
65	Global change community ecology beyond speciesâ€sorting: a quantitative framework based on mediterraneanâ€biome examples. Global Ecology and Biogeography, 2014, 23, 1062-1072.	5.8	8
66	Contrasting levels of connectivity and localised persistence characterise the latitudinal distribution of a wind-dispersed rainforest canopy tree. Genetica, 2014, 142, 251-264.	1.1	19
67	AusPlots Rangelands Field Data Collection and Publication: Infrastructure for Ecological Monitoring. , 2014, , .		2
68	Combining population genetics, species distribution modelling and field assessments to understand a species vulnerability to climate change. Austral Ecology, 2014, 39, 17-28.	1.5	22
69	Higher Levels of Multiple Paternities Increase Seedling Survival in the Long-Lived Tree Eucalyptus gracilis. PLoS ONE, 2014, 9, e90478.	2.5	25
70	Evolutionary Diversification of New Caledonian Araucaria. PLoS ONE, 2014, 9, e110308.	2.5	36
71	Multiâ€species distribution modelling highlights the Adelaide Geosyncline, South Australia, as an important continentalâ€scale aridâ€zone refugium. Austral Ecology, 2013, 38, 427-435.	1.5	18
72	Spatial modelling of species turnover identifies climate ecotones, climate change tipping points and vulnerable taxonomic groups. Ecography, 2013, 36, 1086-1096.	4.5	23

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73	Comparative phylogeography of African rain forest trees: A review of genetic signatures of vegetation history in the Guineo-Congolian region. Comptes Rendus - Geoscience, 2013, 345, 284-296.	1.2	94
74	Polymorphic Microsatellite Loci for Virola sebifera (Myristicaceae) Derived from Shotgun 454 Pyrosequencing. Applications in Plant Sciences, 2013, 1, 1200295.	2.1	3
75	Which provenance and where? Seed sourcing strategies for revegetation in a changing environment. Conservation Genetics, 2013, 14, 1-10.	1.5	290
76	CONVERGENCE AND DIVERGENCE DURING THE ADAPTATION TO SIMILAR ENVIRONMENTS BY AN AUSTRALIAN GROUNDSEL. Evolution; International Journal of Organic Evolution, 2013, 67, 2515-2529.	2.3	66
77	Genomic evidence for the parallel evolution of coastal forms in the Senecio lautus complex. Molecular Ecology, 2013, 22, 2941-2952.	3.9	109
78	Systematic monitoring of heathy woodlands in a Mediterranean climateâ€"a practical assessment of methods. Environmental Monitoring and Assessment, 2013, 185, 3959-3975.	2.7	10
79	Leaf morphology shift: new data and analysis support climate link. Biology Letters, 2013, 9, 20120860.	2.3	12
80	Leaf morphology shift linked to climate change. Biology Letters, 2012, 8, 882-886.	2.3	127
81	Significant population genetic structure detected for a new and highly restricted species of Atriplex (Chenopodiaceae) from Western Australia, and implications for conservation management. Australian Journal of Botany, 2012, 60, 32.	0.6	16
82	No consistent association between changes in genetic diversity and adaptive responses of Australian acacias in novel ranges. Evolutionary Ecology, 2012, 26, 1345-1360.	1.2	22
83	Leaf evolution in Southern Hemisphere conifers tracks the angiosperm ecological radiation. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 341-348.	2.6	88
84	Using the ancient past for establishing current threat in poorly inventoried regions. Biological Conservation, 2012, 147, 153-162.	4.1	11
85	Pollen diversity matters: revealing the neglected effect of pollen diversity on fitness in fragmented landscapes. Molecular Ecology, 2012, 21, 5955-5968.	3.9	57
86	Isolation via 454 sequencing, and characterisation of microsatellites for Drymodes brunneopygia, southern scrub-robin (Aves: Petroicidae): a species at risk due to substantial habitat loss and climate change. Conservation Genetics Resources, 2012, 4, 331-333.	0.8	0
87	Improving biodiversity monitoring. Austral Ecology, 2012, 37, 285-294.	1.5	130
88	Value of longâ€term ecological studies. Austral Ecology, 2012, 37, 745-757.	1.5	326
89	Anthropogenic landscape change promotes asymmetric dispersal and limits regional patch occupancy in a spatially structured bird population. Journal of Animal Ecology, 2012, 81, 940-952.	2.8	44
90	Palaeodistribution modelling and genetic evidence highlight differential postâ€glacial range shifts of a rain forest conifer distributed across a latitudinal gradient. Journal of Biogeography, 2012, 39, 2292-2302.	3.0	40

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91	Shifts in reproductive assurance strategies and inbreeding costs associated with habitat fragmentation in Central American mahogany. Ecology Letters, 2012, 15, 444-452.	6.4	55
92	Consequences of long- and short-term fragmentation on the genetic diversity and differentiation of a late successional rainforest conifer. Australian Journal of Botany, 2011, 59, 351.	0.6	20
93	Rise of the machines â€“ recommendations for ecologists when using next generation sequencing for microsatellite development. Molecular Ecology Resources, 2011, 11, 1093-1101.	4.8	228
94	Plant DNA Barcodes Can Accurately Estimate Species Richness in Poorly Known Floras. PLoS ONE, 2011, 6, e26841.	2.5	100
95	Diversification history and hybridisation of Dacrydium (Podocarpaceae) in remote Oceania. Australian Journal of Botany, 2011, 59, 262.	0.6	27
96	Clarifying climate change adaptation responses for scattered trees in modified landscapes. Journal of Applied Ecology, 2011, 48, 637-641.	4.0	32
97	Building evolutionary resilience for conserving biodiversity under climate change. Evolutionary Applications, 2011, 4, 326-337.	3.1	617
98	Can a seed bank provide demographic and genetic rescue in a declining population of the endangered shrub Acacia pinguifolia?. Conservation Genetics, 2011, 12, 669-678.	1.5	15
99	The Applicat ion of DNA methods to Timber Tracking and Origin Verificat ion. IAWA Journal, 2011, 32, 251-262.	2.7	43
100	Herbarium Collections and Photographic Images: Alternative Data Sources for Phenological Research. , 2010, , 425-461.		24
101	Genetic Consequences of Multigenerational and Landscape Colonisation Bottlenecks for a Neotropical Forest Pioneer Tree, Vochysia ferruginea. Tropical Plant Biology, 2010, 3, 14-27.	1.9	39
102	Chloroplast DNA Microsatellites Reveal Contrasting Phylogeographic Structure in Mahogany (Swietenia macrophylla King, Meliaceae) from Amazonia and Central America. Tropical Plant Biology, 2010, 3, 40-49.	1.9	31
103	Testing Putative African Tropical Forest Refugia Using Chloroplast and Nuclear DNA Phylogeography. Tropical Plant Biology, 2010, 3, 50-58.	1.9	40
104	Did Kauri (Agathis: Araucariaceae) Really Survive the Oligocene Drowning of New Zealand?. Systematic Biology, 2010, 59, 594-602.	5.6	55
105	Genetic variation among Helicoverpa armigera populations as assessed by microsatellites: a cautionary tale about accurate allele scoring. Bulletin of Entomological Research, 2010, 100, 445-450.	1.0	14
106	Massively parallel sequencing and analysis of expressed sequence tags in a successful invasive plant. Annals of Botany, 2010, 106, 1009-1017.	2.9	33
107	DOMESTICATION OF INDIGENOUS FRUIT AND NUT TREES FOR AGROFORESTRY IN THE SOLOMON ISLANDS. Forests Trees and Livelihoods, 2010, 19, 269-287.	1.2	22
108	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 June 2010 â€“ 31 July 2010. Molecular Ecology Resources, 2010, 10, 1106-1108.	4.8	48

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109	A DNA Method to Verify the Integrity of Timber Supply Chains; Confirming the Legal Sourcing of Merbau Timber From Logging Concession to Sawmill. Silvae Genetica, 2010, 59, 263-268.	0.8	34
110	Molecular Markers and the Management of Tropical Trees: the Case of Indigenous Fruits. Tropical Plant Biology, 2009, 2, 1-12.	1.9	35
111	Changing perspectives on the biogeography of the tropical South Pacific: influences of dispersal, vicariance and extinction. Journal of Biogeography, 2009, 36, 1035-1054.	3.0	91
112	Refugia within refugia: the case study of a canopy tree (Eurycorymbus cavaleriei) in subtropical China. Journal of Biogeography, 2009, 36, 2156-2164.	3.0	111
113	A landscape genetics approach for quantifying the relative influence of historic and contemporary habitat heterogeneity on the genetic connectivity of a rainforest bird. Molecular Ecology, 2009, 18, 2945-2960.	3.9	70
114	Predicting reproductive success of insect- versus bird-pollinated scattered trees in agricultural landscapes. Biological Conservation, 2009, 142, 888-898.	4.1	45
115	Something in the way you move: dispersal pathways affect invasion success. Trends in Ecology and Evolution, 2009, 24, 136-144.	8.7	680
116	Biogeographic concepts define invasion biology. Trends in Ecology and Evolution, 2009, 24, 586-586.	8.7	29
117	Understanding population structure and historical demography in a conservation context: population genetics of an endangered fern. Diversity and Distributions, 2008, 14, 799-807.	4.1	17
118	Seed supply for broadscale restoration: maximizing evolutionary potential. Evolutionary Applications, 2008, 1, 587-597.	3.1	495
119	Adaptive evolution in invasive species. Trends in Plant Science, 2008, 13, 288-294.	8.8	724
120	Testing the role of genetic factors across multiple independent invasions of the shrub Scotch broom (Cytisus scoparius). Molecular Ecology, 2007, 16, 4662-4673.	3.9	64
121	Protecting evolutionary significant units for the remnant populations of Berchemiella wilsonii var. pubipetiolata (Rhamnaceae). Conservation Genetics, 2007, 8, 465-473.	1.5	6
122	Effective Seed Dispersal Across a Fragmented Landscape. Science, 2006, 311, 628-628.	12.6	201
123	Isolation and characterization of polymorphic microsatellite loci for the invasive plant Cytisus scoparius. Molecular Ecology Notes, 2006, 7, 100-102.	1.7	4
124	Population genetics of neotropical trees focus issue. Heredity, 2005, 95, 243-245.	2.6	6
125	HISTORICAL AND CONTEMPORARY MATING PATTERNS IN REMNANT POPULATIONS OF THE FOREST TREEFRAXINUS EXCELSIOR L.. Evolution; International Journal of Organic Evolution, 2005, 59, 979-990.	2.3	114
126	The utility and limitations of chloroplast DNA analysis for identifying native British oak stands and for guiding replanting strategy. Forestry, 2004, 77, 335-347.	2.3	14

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127	High Nuclear Genetic Diversity, High Levels of Outcrossing and Low Differentiation Among Remnant Populations of Quercus petraea at the Margin of its Range in Ireland. Annals of Botany, 2004, 93, 691-697.	2.9	74
128	Origins, establishment and evolution of new polyploid species: Senecio cambrensis and S.â€ƒeboracensis in the British Isles. Biological Journal of the Linnean Society, 2004, 82, 467-474.	1.6	189
129	An investigation into effects of long-distance seed dispersal on organelle population genetic structure and colonization rate: a model analysis. Heredity, 2004, 93, 566-576.	2.6	30
130	Population Genetics and Spatial Autocorrelation in an Unmanaged Stand of Quercus petraea in Denmark. Scandinavian Journal of Forest Research, 2003, 18, 295-304.	1.4	15
131	Leaf morphological differentiation between Quercus robur and Quercus petraea is stable across western European mixed oak stands. Annals of Forest Science, 2002, 59, 777-787.	2.0	161
132	Identification of refugia and post-glacial colonisation routes of European white oaks based on chloroplast DNA and fossil pollen evidence. Forest Ecology and Management, 2002, 156, 49-74.	3.2	577
133	Is there a correlation between chloroplastic and nuclear divergence, or what are the roles of history and selection on genetic diversity in European oaks?. Forest Ecology and Management, 2002, 156, 75-87.	3.2	101
134	Chloroplast DNA variation in European white oaks. Forest Ecology and Management, 2002, 156, 5-26.	3.2	424
135	Transferability and genome specificity of a new set of microsatellite primers among Brassica species of the U triangle. Molecular Ecology Notes, 2002, 2, 7-11.	1.7	90
136	Routes of origin of two recently evolved hybrid taxa:Senecio vulgarisvar.hibernicusand York radiate groundsel (Asteraceae). American Journal of Botany, 2000, 87, 1159-1167.	1.7	35
137	Interspecific hybridization and the origin of new plant taxa in Scotland. Botanical Journal of Scotland, 1997, 49, 247-256.	0.3	0
138	Origins of the New Allopolyploid Species Senecio cambrensis (Asteraceae) and its Relationship to the Canary Islands Endemic Senecio teneriffae. American Journal of Botany, 1996, 83, 1365.	1.7	26