Santiago CÃ©sar GonzÃ¡lez-MartÃ-nez

List of Publications by Year
in descending order

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137 papers	8,027 citations	44069 48 h-index	58581 82 g-index
145 all docs	145 docs citations	145 times ranked	8369 citing authors

#	ARTICLE	IF	CITATIONS
1	The GenTree Dendroecological Collection, tree-ring and wood density data from seven tree species across Europe. Scientific Data, 2020, 7, 1.	5.3	830
2	Potential for evolutionary responses to climate change â€“ evidence from tree populations. Global Change Biology, 2013, 19, 1645-1661.	9.5	705
3	Patterns of Population Structure and Environmental Associations to Aridity Across the Range of Loblolly Pine (Pinus taeda L., Pinaceae). Genetics, 2010, 185, 969-982.	2.9	332
4	Association Genetics in Pinus taeda L. I. Wood Property Traits. Genetics, 2007, 175, 399-409.	2.9	258
5	DNA Sequence Variation and Selection of Tag Single-Nucleotide Polymorphisms at Candidate Genes for Drought-Stress Response in Pinus taeda L.. Genetics, 2006, 172, 1915-1926.	2.9	252
6	Forestâ€tree population genomics and adaptive evolution. New Phytologist, 2006, 170, 227-238.	7.3	206
7	Back to nature: ecological genomics of loblolly pine (Pinus taeda, Pinaceae). Molecular Ecology, 2010, 19, 3789-3805.	3.9	204
8	"Contrasting Patterns of Selection at Pinus pinaster Ait. Drought Stress Candidate Genes as Revealed by Genetic Differentiation Analyses". Molecular Biology and Evolution, 2008, 25, 417-437.	8.9	198
9	Molecular Footprints of Local Adaptation in Two Mediterranean Conifers. Molecular Biology and Evolution, 2011, 28, 101-116.	8.9	172
10	Range-wide phylogeography and gene zones in Pinus pinaster Ait. revealed by chloroplast microsatellite markers. Molecular Ecology, 2007, 16, 2137-2153.	3.9	129
11	GENETICALLY DEPAUPERATE BUT WIDESPREAD: THE CASE OF AN EMBLEMATIC MEDITERRANEAN PINE. Evolution; International Journal of Organic Evolution, 2008, 62, 680-688.	2.3	128
12	Association genetics in Pinus taeda L. II. Carbon isotope discrimination. Heredity, 2008, 101, 19-26.	2.6	126
13	Fine-Scale Genetic Structure and Gene Dispersal in Centaurea corymbosa (Asteraceae). II. Correlated Paternity Within and Among Sibships. Genetics, 2004, 168, 1601-1614.	2.9	122
14	Gene flow and hybridisation in a mixed oak forest (Quercus pyrenaica Willd. and Quercus petraea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	111
15	Genetic effects of chronic habitat fragmentation revisited: Strong genetic structure in a temperate tree, Taxus baccata (Taxaceae), with great dispersal capability. American Journal of Botany, 2010, 97, 303-310.	1.7	94
16	Forests and global change: what can genetics contribute to the major forest management and policy challenges of the twenty-first century?. Regional Environmental Change, 2016, 16, 927-939.	2.9	91
17	Fire structures pine serotiny at different scales. American Journal of Botany, 2013, 100, 2349-2356.	1.7	89
18	Advances in ecological genomics in forest trees and applications to genetic resources conservation and breeding. Molecular Ecology, 2017, 26, 706-717.	3.9	85

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19	Effective gene dispersal and female reproductive success in Mediterranean maritime pine (Pinus) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.9	80
20	Molecular Proxies for Climate Maladaptation in a Long-Lived Tree (Pinus pinasterAiton,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	2.9	78
21	Seed gene flow and fine-scale structure in a Mediterranean pine (Pinus pinaster Ait.) using nuclear microsatellite markers. Theoretical and Applied Genetics, 2002, 104, 1290-1297.	3.6	76
22	Range Expansion Compromises Adaptive Evolution in an Outcrossing Plant. Current Biology, 2017, 27, 2544-2551.e4.	3.9	75
23	Geography determines genetic relationships between species of mountain pine (Pinus mugo) Tj ETQq1 1 0.784314 rgBT /Over	3.0	71
24	Plant intraspecific variation modulates nutrient cycling through its below ground rhizospheric microbiome. Journal of Ecology, 2019, 107, 1594-1605.	4.0	71
25	Population genetic structure in a Mediterranean pine (Pinus pinaster Ait.): a comparison of allozyme markers and quantitative traits. Heredity, 2002, 89, 199-206.	2.6	69
26	Spatial genetic structure in continuous and fragmented populations of Pinus pinaster Aiton. Molecular Ecology, 2009, 18, 4564-4576.	3.9	69
27	InÂsitu genetic association for serotiny, a fireâ€related trait, in Mediterranean maritime pine (Pinus pinaster). New Phytologist, 2014, 201, 230-241.	7.3	69
28	Combining molecular and fossil data to infer demographic history of Quercus cerris: insights on European eastern glacial refugia. Journal of Biogeography, 2016, 43, 679-690.	3.0	69
29	Fine-scale genetic structure and gene dispersal in Centaurea corymbosa (Asteraceae) I. Pattern of pollen dispersal. Journal of Evolutionary Biology, 2004, 17, 795-806.	1.7	67
30	Spatial genetic structure of Taxus baccata L. in the western Mediterranean Basin: Past and present limits to gene movement over a broad geographic scale. Molecular Phylogenetics and Evolution, 2010, 55, 805-815.	2.7	67
31	Climatic niche and neutral genetic diversity of the six Iberian pine species: a retrospective and prospective view. Molecular Ecology, 2010, 19, 1396-1409.	3.9	67
32	Patterns of polymorphism resulting from longâ€range colonization in the Mediterranean conifer Aleppo pine. New Phytologist, 2009, 184, 1016-1028.	7.3	66
33	Development and implementation of a highly-multiplexed SNP array for genetic mapping in maritime pine and comparative mapping with loblolly pine. BMC Genomics, 2011, 12, 368.	2.8	66
34	Genetic diversity and differentiation of two Mediterranean pines (Pinus halepensis Mill. and Pinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Distributions, 2005, 11, 257-263.	4.1	65
35	Is Cupressus sempervirens native in Italy? An answer from genetic and palaeobotanical data. Molecular Ecology, 2009, 18, 2276-2286.	3.9	65
36	The Strait of Gibraltar as a major biogeographic barrier in Mediterranean conifers: a comparative phylogeographic survey. Molecular Ecology, 2010, 19, 5452-5468.	3.9	63

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37	Adapting through glacial cycles: insights from a longâ€lived tree (Taxus baccata). New Phytologist, 2015, 208, 973-986.	7.3	63
38	Fine-scale spatial genetic structure in mixed oak stands with different levels of hybridization. Molecular Ecology, 2007, 16, 1207-1219.	3.9	62
39	Mating system and pollen gene flow in Mediterranean maritime pine. Heredity, 2008, 100, 390-399.	2.6	62
40	First insights into the transcriptome and development of new genomic tools of a widespread circumâ€Mediterranean tree species, Pinus halepensis Mill. Molecular Ecology Resources, 2014, 14, 846-856.	4.8	61
41	Detecting short spatial scale local adaptation and epistatic selection in climateâ€related candidate genes in <scp>E</scp>uropean beech (<scp>F</scp>agus sylvatica) populations. Molecular Ecology, 2014, 23, 4696-4708.	3.9	61
42	Cross-amplification and sequence variation of microsatellite loci in Eurasian hard pines. Theoretical and Applied Genetics, 2004, 109, 103-111.	3.6	60
43	Genetic differentiation for size at first reproduction through male versus female functions in the widespread Mediterranean tree Pinus pinaster. Annals of Botany, 2012, 110, 1449-1460.	2.9	58
44	Complex population genetic structure in the endemic Canary Island pine revealed using chloroplast microsatellite markers. Theoretical and Applied Genetics, 2003, 107, 1123-1131.	3.6	57
45	Chloroplast microsatellites reveal colonization and metapopulation dynamics in the Canary Island pine. Molecular Ecology, 2006, 15, 2691-2698.	3.9	55
46	Capturing neutral and adaptive genetic diversity for conservation in a highly structured tree species. Ecological Applications, 2016, 26, 2254-2266.	3.8	54
47	The contribution of recombination to heterozygosity differs among plant evolutionary lineages and life-forms. BMC Evolutionary Biology, 2010, 10, 22.	3.2	53
48	Highâ€density <scp>SNP</scp> assay development for genetic analysis in maritime pine (<scp>P</scp>inus pinaster). Molecular Ecology Resources, 2016, 16, 574-587.	4.8	53
49	Early Sex-Chromosome Evolution in the Diploid Dioecious Plant Mercurialis annua. Genetics, 2019, 212, 815-835.	2.9	53
50	A Reference Genome Sequence for the European Silver Fir (Abies albaMill.): A Community-Generated Genomic Resource. G3: Genes, Genomes, Genetics, 2019, 9, 2039-2049.	1.8	53
51	Environmental versus geographical determinants of genetic structure in two subalpine conifers. New Phytologist, 2014, 201, 180-192.	7.3	52
52	Genetic resources in maritime pine (Pinus pinaster Aiton): molecular and quantitative measures of genetic variation and differentiation among maternal lineages. Forest Ecology and Management, 2004, 197, 103-115.	3.2	49
53	Functional outcomes of fungal community shifts driven by tree genotype and spatialâ€temporal factors in Mediterranean pine forests. Environmental Microbiology, 2017, 19, 1639-1652.	3.8	48
54	Adaptive evolution of Mediterranean pines. Molecular Phylogenetics and Evolution, 2013, 68, 555-566.	2.7	46

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55	Heritability and quantitative genetic divergence of serotiny, a fire-persistence plant trait. Annals of Botany, 2014, 114, 571-577.	2.9	45
56	Variation of morphological traits in natural populations of maritime pine (Pinus pinaster Ait.) in Morocco. Annals of Forest Science, 2006, 63, 83-92.	2.0	44
57	Effects of local density on insect visitation and fertilization success in the narrow-endemicCentaurea corymbosa(Asteraceae). Oikos, 2005, 111, 130-142.	2.7	43
58	Coppice forests and genetic diversity: A case study in Quercus pyrenaica Willd. from Central Spain. Forest Ecology and Management, 2008, 254, 225-232.	3.2	41
59	Adaptation and plasticity in aboveground allometry variation of four pine species along environmental gradients. Ecology and Evolution, 2016, 6, 7561-7573.	1.9	40
60	Isolation and characterization of polymorphic nuclear microsatellite loci in Taxus baccata L.. Conservation Genetics, 2008, 9, 1665-1668.	1.5	39
61	Field heritability of a plant adaptation to fire in heterogeneous landscapes. Molecular Ecology, 2015, 24, 5633-5642.	3.9	39
62	The ancient tropical rainforest tree Symphonia globulifera L. f. (Clusiaceae) was not restricted to postulated Pleistocene refugia in Atlantic Equatorial Africa. Heredity, 2013, 111, 66-76.	2.6	38
63	Nucleotide diversity and linkage disequilibrium at 58 stress response and phenology candidate genes in a European beech (Fagus sylvatica L.) population from southeastern France. Tree Genetics and Genomes, 2014, 10, 15-26.	1.6	36
64	DISASSORTATIVE MATING, SEXUAL SPECIALIZATION, AND THE EVOLUTION OF GENDER DIMORPHISM IN HETERODICHOGAMOUSACER OPALUS. Evolution; International Journal of Organic Evolution, 2008, 62, 1676-1688.	2.3	35
65	Admixture mapping of quantitative traits in Populus hybrid zones: power and limitations. Heredity, 2013, 111, 474-485.	2.6	35
66	Fifty years of genetic studies: what to make of the large amounts of variation found within populations?. Annals of Forest Science, 2016, 73, 69-75.	2.0	35
67	The Role of Population Origin and Microenvironment in Seedling Emergence and Early Survival in Mediterranean Maritime Pine (Pinus pinaster Aiton). PLoS ONE, 2014, 9, e109132.	2.5	35
68	Novel polymorphic nuclear microsatellite markers for Pinus sylvestris L.. Conservation Genetics Resources, 2012, 4, 231-234.	0.8	31
69	Use of molecular markers for estimating breeding parameters: a case study in a Pinus pinaster Ait. progeny trial. Tree Genetics and Genomes, 2009, 5, 609-616.	1.6	30
70	Genetic analysis of post-mating reproductive barriers in hybridizing European Populus species. Heredity, 2011, 107, 478-486.	2.6	29
71	Climate and population origin shape pine tree height-diameter allometry. New Forests, 2017, 48, 363-379.	1.7	28
72	Adaptive variation in natural Alpine populations of Norway spruce (Picea abies [L.] Karst) at regional scale: Landscape features and altitudinal gradient effects. Forest Ecology and Management, 2017, 405, 350-359.	3.2	28

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73	Growth and yield models in Spain: Historical overview, Contemporary Examples and perspectives. Forest Systems, 2011, 20, 315.	0.3	28
74	Tree populations bordering on extinction: A case study in the endemic Canary Island pine. Biological Conservation, 2006, 129, 451-460.	4.1	27
75	High rate of adaptive evolution in two widespread European pines. Molecular Ecology, 2017, 26, 6857-6870.	3.9	27
76	Increased fire frequency promotes stronger spatial genetic structure and natural selection at regional and local scales in Pinus halepensis Mill. Annals of Botany, 2017, 119, 1061-1072.	2.9	27
77	Development and characterization of eight polymorphic microsatellite loci from Pistacia lentiscus L. (Anacardiaceae). Molecular Ecology Resources, 2008, 8, 904-906.	4.8	26
78	Estimating gametic introgression rates in a risk assessment context: a case study with Scots pine relicts. Heredity, 2009, 103, 385-393.	2.6	25
79	What can nuclear microsatellites tell us about maritime pine genetic resources conservation and provenance certification strategies?. Annals of Forest Science, 2002, 59, 699-708.	2.0	24
80	Recent population decline and selection shape diversity of taxolâ€related genes. Molecular Ecology, 2012, 21, 3006-3021.	3.9	24
81	Can seed production and restricted dispersal limit recruitment in Pinus pinaster Aiton from the Spanish Northern Plateau?. Forest Ecology and Management, 2014, 313, 329-339.	3.2	24
82	Implications of natural propagule flow for containment of genetically modified forest trees. Tree Genetics and Genomes, 2007, 3, 141-152.	1.6	23
83	Size and Content of the Sex-Determining Region of the Y Chromosome in Dioecious Mercurialis annua, a Plant with Homomorphic Sex Chromosomes. Genes, 2018, 9, 277.	2.4	23
84	Evolution of Disease Response Genes in Loblolly Pine: Insights from Candidate Genes. PLoS ONE, 2010, 5, e14234.	2.5	23
85	Altitudinal gradients, biogeographic history and microhabitat adaptation affect fine-scale spatial genetic structure in African and Neotropical populations of an ancient tropical tree species. PLoS ONE, 2017, 12, e0182515.	2.5	23
86	Genetic differentiation in Pinus brutia Ten. using molecular markers and quantitative traits: the role of altitude. Annals of Forest Science, 2012, 69, 345-351.	2.0	22
87	Environment-dependent microevolution in a Mediterranean pine (Pinus pinasterAiton). BMC Evolutionary Biology, 2014, 14, 200.	3.2	22
88	Inferring selection in instances of longâ€range colonization: The Aleppo pine (Pinus halepensis) in the Mediterranean Basin. Molecular Ecology, 2018, 27, 3331-3345.	3.9	22
89	A multiscale approach to detect selection in nonmodel tree species: Widespread adaptation despite population decline in Taxus baccata L. Evolutionary Applications, 2020, 13, 143-160.	3.1	22
90	Extensive Pollen Flow but Few Pollen Donors and High Reproductive Variance in an Extremely Fragmented Landscape. PLoS ONE, 2012, 7, e49012.	2.5	21

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91	The Atlanticâ€“Mediterranean watershed, river basins and glacial history shape the genetic structure of Iberian poplars. Molecular Ecology, 2012, 21, 3593-3609.	3.9	21
92	Polygenic adaptation and negative selection across traits, years and environments in a longâ€lived plant species (Pinus pinaster Ait., Pinaceae). Molecular Ecology, 2022, 31, 2089-2105.	3.9	21
93	Spatial genetic structure of an explicit glacial refugium of maritime pine (Pinus pinaster Aiton) in southeastern Spain. , 2007, , 257-269.		20
94	Patterns of genetic variability and habitat occupancy in Crepis triasii (Asteraceae) at different spatial scales: insights on evolutionary processes leading to diversification in continental islands. Annals of Botany, 2012, 109, 429-441.	2.9	19
95	Local effects drive heterozygosityâ€“fitness correlations in an outcrossing long-lived tree. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20152230.	2.6	19
96	Selfing and sibship structure in a two-cohort stand of maritime pine (Pinus pinaster Ait.) using nuclear SSR markers. Annals of Forest Science, 2003, 60, 115-121.	2.0	17
97	Correlated genetic effects on reproduction define a domestication syndrome in a forest tree. Evolutionary Applications, 2015, 8, 403-410.	3.1	17
98	Understanding the genetic bases of adaptation to soil water deficit in trees through the examination of water use efficiency and cavitation resistance: maritime pine as a case study. The Journal of Plant Hydraulics, 0, 3, e008.	1.0	17
99	Looking for Local Adaptation: Convergent Microevolution in Aleppo Pine (Pinus halepensis). Genes, 2019, 10, 673.	2.4	16
100	Isolation of microsatellite markers for the common Mediterranean shrub Myrtus communis (Myrtaceae). American Journal of Botany, 2010, 97, e23-5.	1.7	15
101	Fine-scale spatial genetic dynamics over the life cycle of the tropical tree Prunus africana. Heredity, 2014, 113, 401-407.	2.6	15
102	Environmental effects on fineâ€scale spatial genetic structure in four Alpine keystone forest tree species. Molecular Ecology, 2018, 27, 647-658.	3.9	15
103	Molecular signatures of divergence and selection in closely related pine taxa. Tree Genetics and Genomes, 2018, 14, 83.	1.6	15
104	Evolutionary rate and genetic load in an emblematic Mediterranean tree following an ancient and prolonged population collapse. Molecular Ecology, 2020, 29, 4797-4811.	3.9	15
105	Studying within-stand structure and dynamics with geostatistical and molecular marker tools. Forest Ecology and Management, 2004, 189, 223-240.	3.2	14
106	Spatiotemporal mating pattern variation in a windâ€pollinated Mediterranean shrub. Molecular Ecology, 2009, 18, 5195-5206.	3.9	14
107	Nuclear microsatellites for Pinus pinea (Pinaceae), a genetically depauperate tree, and their transferability to P. halepensis. American Journal of Botany, 2012, 99, e362-5.	1.7	14
108	Genetic basis of growth, spring phenology, and susceptibility to biotic stressors in maritime pine. Evolutionary Applications, 2021, 14, 2750-2772.	3.1	14

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109	Nucleotide polymorphisms in a pine ortholog of theArabidopsisdegrading enzyme cellulase KORRIGAN are associated with early growth performance inPinus pinaster. Tree Physiology, 2015, 35, 1000-1006.	3.1	13
110	Demographic history and spatial genetic structure in a remnant population of the subtropical tree Anadenanthera colubrina var. cebil (Griseb.) Altschul (Fabaceae). Annals of Forest Science, 2019, 76, 1.	2.0	13
111	Molecular and Quantitative Genetics of Stone Pine (Pinus pinea). Sustainable Development and Biodiversity, 2019, , 61-84.	1.7	13
112	Extensive Clonal Assemblies in Populus alba and Populus x canescens from the Iberian Peninsula. Tree Genetics and Genomes, 2013, 9, 499-510.	1.6	12
113	Can facilitation influence the spatial genetics of the beneficiary plant population?. Journal of Ecology, 2014, 102, 1214-1221.	4.0	11
114	Factors affecting cone production in Pinus pinaster Ait.: lack of growth-reproduction trade-offs but significant effects of climate and tree and stand characteristics. Forest Systems, 2017, 26, e07S.	0.3	11
115	Development and Characterization of Three Highly Informative EST-SSR Multiplexes for Pinus halepensis mill. and their Transferability to Other Mediterranean Pines. Plant Molecular Biology Reporter, 2016, 34, 993-1002.	1.8	10
116	Phenological match drives pollenâ€mediated gene flow in a temporally dimorphic tree. Plant Biology, 2018, 20, 93-100.	3.8	10
117	The Tree Height Growth of Most Southern Scot Pine Populations Are Locally Adapted to Drought. Forests, 2019, 10, 555.	2.1	10
118	Demography, genetic diversity and expansion load in the colonizing species Leontodon longirostris (Asteraceae) throughout its native range. Molecular Ecology, 2021, 30, 1190-1205.	3.9	10
119	Isolation of SSR markers for two African tropical tree species, Erythrophleum suaveolens and E. ivorense (Caesalpinioideae). American Journal of Botany, 2011, 98, e106-8.	1.7	9
120	Development of genomic tools in a widespread tropical tree, Symphonia globulifera L.f.: a new lowâ€coverage draft genome, <scp>SNP</scp> and <scp>SSR</scp> markers. Molecular Ecology Resources, 2017, 17, 614-630.	4.8	9
121	Allocating individuals to avoid inbreeding in ex situ conservation plantations: so far, so good. Conservation Genetics, 2009, 10, 45-57.	1.5	8
122	De novo assembly of English yew (Taxus baccata) transcriptome and its applications for intra- and inter-specific analyses. Plant Molecular Biology, 2018, 97, 337-345.	3.9	8
123	Combining Climatic and Genomic Data Improves Range-Wide Tree Height Growth Prediction in a Forest Tree. American Naturalist, 2022, 200, E141-E159.	2.1	8
124	Biogeography and evolution of seeder and resprouter forms of Erica coccinea (Ericaceae) in the fire-prone Cape fynbos. Plant Ecology, 2016, 217, 751-761.	1.6	7
125	Causes and consequences of large clonal assemblies in a poplar hybrid zone. Molecular Ecology, 2016, 25, 5330-5344.	3.9	7
126	Evolutionary history of the mediterranean Pinus halepensis-brutia species complex using gene-resequencing and transcriptomic approaches. Plant Molecular Biology, 2021, 106, 367-380.	3.9	7

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127	Patterns of genetic diversity and differentiation in resistance gene clusters of two hybridizing European Populus species. Tree Genetics and Genomes, 2015, 11, 1.	1.6	5
128	Admixture and selection patterns across the European distribution of Scots pine, Pinus sylvestris (Pinaceae). Botanical Journal of the Linnean Society, 2022, 200, 416-432.	1.6	5
129	Spatial genetic structure and mating system in forest tree populations from seasonally dry tropical forests: a review. Tree Genetics and Genomes, 2022, 18, 1.	1.6	5
130	OVULE DISCOUNTING IN AN OUTCROSSING, CRYPTICALLY DIOECIOUS TREE. Evolution; International Journal of Organic Evolution, 2006, 60, 2056.	2.3	4
131	sofsog : a suite of programs to avoid inbreeding in plantation designs. Molecular Ecology Resources, 2010, 10, 393-396.	4.8	4
132	Environmental patterns of adaptation after range expansion in Leontodon longirostris : the effect of phenological events on fitnessâ€related traits. American Journal of Botany, 2022, , .	1.7	4
133	Maritime Pine Genomics in Focus. Compendium of Plant Genomes, 2022, , 67-123.	0.5	4
134	The GenTree Platform: growth traits and tree-level environmental data in 12 European forest tree species. GigaScience, 2021, 10, .	6.4	3
135	SELECTIVE INTERACTIONS BETWEEN SHORT-DISTANCE POLLEN AND SEED DISPERSAL IN SELF-COMPATIBLE SPECIES. Evolution; International Journal of Organic Evolution, 2006, 60, 2257.	2.3	2
136	Conservation Genomics. , 2010, , 349-368.		2
137	Population Genetics and Genomics of Aleppo Pine (Pinus halepensis). Managing Forest Ecosystems, 2021, , 19-32.	0.9	1