Du?an GÃ¶mÃ¶ry

List of Publications by Year
in descending order

112 papers	3,325 citations	186265 28 h-index	168389 53 g-index
115 all docs	115 docs citations	115 times ranked	4034 citing authors

#	Article	IF	Citations
1	A new scenario for the Quaternary history of European beech populations: palaeobotanical evidence and genetic consequences. New Phytologist, 2006, 171, 199-221.	7.3	757
2	Diverging Trends Between Heterozygosity and Allelic Richness During Postglacial Colonization in the European Beech. Genetics, 2001, 157, 389-397.	2.9	345
3	Genotypic variability and phenotypic plasticity of cavitation resistance in Fagus sylvatica L. across Europe. Tree Physiology, 2011, 31, 1175-1182.	3.1	159
4	Postglacial range expansion and its genetic imprints in Abies alba (Mill.) â€" A synthesis from palaeobotanic and genetic data. Review of Palaeobotany and Palynology, 2009, 153, 139-149.	1.5	144
5	Trade-off between height growth and spring flushing in common beech (Fagus sylvatica L.). Annals of Forest Science, 2011, 68, 975-984.	2.0	75
6	Genetic differentiation and phylogeny of beech on the Balkan peninsula. Journal of Evolutionary Biology, 1999, 12, 746-754.	1.7	65
7	Altitude of origin influences the responses of PSII photochemistry to heat waves in European beech (Fagus sylvatica L.). Environmental and Experimental Botany, 2018, 152, 97-106.	4.2	61
8	Chloroplast DNA variation of white oaks in northern Balkans and in the Carpathian Basin. Forest Ecology and Management, 2002, 156, 197-209.	3.2	60
9	Genetic differentiation of oak populations within the Quercus robur/Quercus petraea complex in Central and Eastern Europe. Heredity, 2001, 86, 557-563.	2.6	58
10	Chilling and forcing requirements for foliage bud burst of European beech (Fagus sylvatica L.) differ between provenances and are phenotypically plastic. Agricultural and Forest Meteorology, 2017, 234-235, 172-181.	4.8	57
11	A Reference Genome Sequence for the European Silver Fir (Abies alba Mill.): A Community-Generated Genomic Resource. G3: Genes, Genomes, Genetics, 2019, 9, 2039-2049.	1.8	53
12	Effect of stand origin on the genetic diversity of Norway spruce (Picea abies Karst.) populations. Forest Ecology and Management, 1992, 54, 215-223.	3.2	52
13	Seed rain and environmental controls on invasion of Picea abies into grassland. Plant Ecology, 2007, 194, 135-148.	1.6	50
14	Soil microbial community response to variation in vegetation and abiotic environment in a temperate old-growth forest. Applied Soil Ecology, 2013, 68, 10-19.	4.3	41
15	Effects of postâ€glacial phylogeny and genetic diversity on the growth variability and climate sensitivity of European silver fir. Journal of Ecology, 2016, 104, 716-724.	4.0	40
16	Genetic structure of a rare European conifer, Serbian spruce (Picea omorika (PanÄ•) Purk.). Plant Systematics and Evolution, 2006, 260, 53-63.	0.9	38
17	Long-term cryopreservation of Greek fir embryogenic cell lines: Recovery, maturation and genetic fidelity. Cryobiology, 2011, 63, 17-25.	0.7	38
18	Changes of the functional diversity of soil microbial community during the colonization of abandoned grassland by a forest. Applied Soil Ecology, 2009, 43, 191-199.	4.3	36

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19	Genetic variation in Tertiary relics: The case of easternâ€Mediterranean Abies (Pinaceae). Ecology and Evolution, 2017, 7, 10018-10030.	1.9	36
20	Fertility variation and flowering asynchrony in Pinus sylvestris: consequences for the genetic structure of progeny in seed orchards. Forest Ecology and Management, 2003, 174, 117-126.	3.2	35
21	Admixture of genetic lineages of different glacial origin: a case study of Abies alba Mill. in the Carpathians. Plant Systematics and Evolution, 2012, 298, 703-712.	0.9	35
22	Phenotypic trait variation measured on European genetic trials of Fagus sylvatica L. Scientific Data, 2018, 5, 180149.	5.3	35
23	Differentiation in phenological and physiological traits in European beech (Fagus sylvatica L.). European Journal of Forest Research, 2015, 134, 1075-1085.	2.5	34
24	Juvenile growth response of European beech (Fagus sylvatica L.) to sudden change of climatic environment in SE European trials. IForest, 2009, 2, 213-220.	1.4	34
25	Effect of sucrose concentration, polyethylene glycol and activated charcoal on maturation and regeneration of Abies cephalonica somatic embryos. Plant Cell, Tissue and Organ Culture, 2009, 96, 251-262.	2.3	31
26	Soil microbial characteristics at the monitoring plots on windthrow areas of the Tatra National Park (Slovakia): their assessment as environmental indicators. Environmental Monitoring and Assessment, 2011, 174, 31-45.	2.7	31
27	Revisiting tree-migration rates: Abies alba (Mill.), a case study. Vegetation History and Archaeobotany, 2014, 23, 113-122.	2.1	30
28	Adaptation to common optimum in different populations of Norway spruce (Picea abies Karst.). European Journal of Forest Research, 2012, 131, 401-411.	2.5	29
29	Patterns of allozyme variation in western Eurasian Fagus. Botanical Journal of the Linnean Society, 2007, 154, 165-174.	1.6	28
30	Variation patterns of mitochondrial DNA of Abies alba Mill. in suture zones of postglacial migration in Europe. Acta Societatis Botanicorum Poloniae, 2011, 73, 203-206.	0.8	28
31	The impact of windthrow and fire disturbances on selected soil properties in the Tatra National Park. Soil and Water Research, 2008, 3, S74-S80.	1.7	25
32	Artificial hybridization of some Abies species. Plant Systematics and Evolution, 2013, 299, 1175-1184.	0.9	24
33	Natural hybridization in eastern-Mediterranean firs: The case ofAbies borisii-regis. Plant Biosystems, 2016, 150, 1189-1199.	1.6	24
34	Spatial patterns of soil microbial characteristics and soil moisture in a natural beech forest. Biologia (Poland), 2006, 61, S329-S333.	1.5	22
35	Species Richness Pattern along Altitudinal Gradient in Central European Beech Forests. Folia Geobotanica, 2014, 49, 425-441.	0.9	22
36	Somatic embryogenesis in Greek fir. Canadian Journal of Forest Research, 2008, 38, 760-769.	1.7	21

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37	Responses of soil microorganisms and water content in forest floor horizons to environmental factors. European Journal of Soil Biology, 2013, 55, 71-76.	3.2	21
38	Initiation, long-term cryopreservation, and recovery of Abies alba Mill. embryogenic cell lines. In Vitro Cellular and Developmental Biology - Plant, 2013, 49, 560-571.	2.1	20
39	Selection effects of air pollution on gene pools of Norway spruce, European silver fir and European beech. Environmental Pollution, 2001, 115, 405-411.	7.5	19
40	Reticulate evolution patterns in western-Eurasian beeches. Botanica Helvetica, 2010, 120, 63-74.	1.1	19
41	The soil hydrogel improved photosynthetic performance of beech seedlings treated under drought. Plant, Soil and Environment, 2013, 59, 446-451.	2.2	19
42	Do Cupins Have a Function Beyond Being Seed Storage Proteins?. Frontiers in Plant Science, 2015, 6, 1215.	3.6	19
43	Differences in photochemistry and response to heat stress between silver fir (Abies alba Mill.) provenances. Trees - Structure and Function, 2018, 32, 73-86.	1.9	19
44	Phylogeny of beech in western Eurasia as inferred by approximate Bayesian computation. Acta Societatis Botanicorum Poloniae, 2018, 87, .	0.8	19
45	Interannual adjustments in stomatal and leaf morphological traits of European beech (<i>Fagus) Tj ETQq1 1 0.784314 rgBT /Overlock 1 1287-1296.	3.8	19
46	Genetic effects of air pollution on forest tree species of the Carpathian Mountains. Environmental Pollution, 2004, 130, 85-92.	7.5	18
47	Development of physico-chemical and biological soil properties on the European ground squirrel mounds. Geoderma, 2019, 339, 85-93.	5.1	18
48	Effect of alginite amendment on microbial activity and soil water content in forest soils. Biologia (Poland), 2009, 64, 585-588.	1.5	17
49	Delineation of seed zones for European beech (Fagus sylvatica L.) in the Czech Republic based on isozyme gene markers. Annales Des Sciences ForestiÄ¨res, 1998, 55, 425-436.	1.2	16
50	Markedly Divergent Tree Assemblage Responses to Tropical Forest Loss and Fragmentation across a Strong Seasonality Gradient. PLoS ONE, 2015, 10, e0136018.	2.5	16
51	Memory effects associated with early-growth environment in Norway spruce and European larch. European Journal of Forest Research, 2015, 134, 89-97.	2.5	16
52	Variation in the performance and thermostability of photosystem II in European beech (Fagus sylvatica) Tj ETQq0 0 0 rgBT /Overlock 10 Research, 2019, 138, 79-92.	2.5	16
53	Nucleotide polymorphisms associated with climate, phenology and physiological traits in European beech (Fagus sylvatica L.). New Forests, 2017, 48, 463-477.	1.7	15
54	Origin and genetic differentiation of pink-flowered Sorbus hybrids in the Western Carpathians. Annals of Botany, 2017, 120, 271-284.	2.9	15

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55	The Balkans: a genetic hotspot but not a universal colonization source for trees. Plant Systematics and Evolution, 2020, 306, 1.	0.9	15
56	Extent of nuclear genome sharing among white oak species (Quercus L. subgen. Lepidobalanus (Endl.)) Tj ETQq0 0 0 rgBT /Overlock 10	0.9	14
57	Field-based artificial crossings indicate partial compatibility of reciprocal crosses between Pinus sylvestris and Pinus mugo and unexpected chloroplast DNA inheritance. Tree Genetics and Genomes, 2017, 13, 1.	1.6	14
58	Across-species patterns of genetic variation in forest trees of Central Europe. Biodiversity and Conservation, 2010, 19, 2025-2038.	2.6	13
59	Maternal inheritance of chloroplast DNA in Pinus mugo Turra: a case study of Pinus mugoÂÃ—ÂPinus sylvestris crossing. Plant Systematics and Evolution, 2018, 304, 71-76.	0.9	13
60	Spontaneous Hybridization between Pinus sylvestris L. and P. mugo Turra in Slovakia. Silvae Genetica, 2008, 57, 76-82.	0.8	13
61	Assisted migration vs. close-to-nature forestry: what are the prospects for tree populations under climate change?. LesnÃcky ÄŒasopis, 2020, 66, 63-70.	0.8	13
62	Spatial and microgeographical genetic differentiation of black alder (Alnus glutinosa Gaertn.) populations. Forest Ecology and Management, 2002, 160, 3-9.	3.2	11
63	Genetic differentiation of Sorbus torminalis in Eastern Europe as determined by microsatellite markers. Biologia (Poland), 2010, 65, 817-821.	1.5	11
64	Patterns of grassland invasions by trees: insights from demographic and genetic spatial analyses. Journal of Plant Ecology, 2015, 8, 468-479.	2.3	10
65	Adaptive variation in physiological traits of beech provenances in Central Europe. IForest, 2018, 11, 24-31.	1.4	10
66	Soil microorganisms at the windthrow plots: the effect of post-disturbance management and the time since disturbance. IForest, 2017, 10, 515-521.	1.4	10
67	Effects of microsite variation on growth and adaptive traits in a beech provenance trial. Journal of Forest Science, 2011, 57, 192-199.	1.1	9
68	Nucleotide polymorphisms related to altitude and physiological traits in contrasting provenances of Norway spruce (Picea abies). Biologia (Poland), 2012, 67, 909-916.	1.5	9
69	Changes of Chemical and Biological Properties of Distinct Forest Floor Layers after Wood Ash Application in a Norway Spruce Stand. Forests, 2016, 7, 108.	2.1	9
70	Responses of soil microorganisms to land use in different soil types along the soil profiles. Soil and Water Research, 2020, 15, 125-134.	1.7	9
71	Effect of site altitude on the growth and survival of Norway spruce (Picea abies L.) provenances on the Slovak plots of IUFRO experiment 1972. Journal of Forest Science, 2002, 48, 16-26.	1.1	8
72	Photosynthetic performance of silver fir (Abies alba) of different origins under suboptimal growing conditions. Functional Plant Biology, 2020, 47, 1007.	2.1	8

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73	Relationships between environmental factors and height growth and yield of Norway spruce stands: a factor-analytic approach. Forestry, 1995, 68, 145-152.	2.3	7
74	Forest ecosystem genomics and adaptation: EVOLTREE conference report. Tree Genetics and Genomes, 2011, 7, 869-875.	1.6	7
75	Soil microbial community responses to windthrow disturbance in Tatra National Park (Slovakia) during the period 2006 â€“ 2013 / Odozva pÃ´dneho mikrobiÃ¡lneho spoloÄenstva na veternÃº kalamitu v Tatranskom nÃ¡rodnom parku (Slovensko) v obdobÃ-rokov 2006â€“2013. LesnÃ¢cky Ä Œasopis, 2014, 60, .	0.8	7
76	Epigenetic memory effects in forest trees: a victory of â€œMichurinian biologyâ€?. Central European Forestry Journal, 2017, 63, 173-179.	0.8	7
77	Seasonal dynamics of macrophyte abundance in two regulated streams. Open Life Sciences, 2009, 4, 241-249.	1.4	6
78	Norway Spruce (Picea abies [L.] Karst.) Provenance Variation in Autumn Cold Hardiness: Adaptation or Acclimation?. Acta Biologica Cracoviensia Series Botanica, 2010, 52, .	0.5	6
79	Allozyme and phenotypic variation in beech (Fagus sylvaticaL.): Are there any links?. Plant Biosystems, 2013, 147, 265-271.	1.6	6
80	Variation of cytosine methylation patterns in European beech (Fagus sylvatica L.). Tree Genetics and Genomes, 2017, 13, 1.	1.6	6
81	Nucleotide polymorphisms associated with climate and physiological traits in silver fir (Abies alba) Tj ETQq1 1 0.784314 rgBT /Overloc	1.2	6
82	Special issue in honour of Prof. Reto J. StrasserÂ-ÂOrigin rather than mild drought stress influenced chlorophyll a fluorescence in contrasting silver fir (Abies alba Mill.) provenances. Photosynthetica, 2020, 58, 549-559.	1.7	6
83	Abortive embryogenesis in hybrid swarm populations of Pinus sylvestris L. and Pinus muga Turra. Trees - Structure and Function, 2008, 22, 657-662.	1.9	5
84	Growth response of European larch (Larix decidua Mill.) populations to climatic transfer A Novel Approach for Controlled Pollination in Casuarina equisetifolia. Silvae Genetica, 2014, 63, 67-75.	0.8	5
85	Longevity and germination of Juniperus communis L. pollen after storage. Scientific Reports, 2021, 11, 12755.	3.3	5
86	Spatial structure of a natural mixed topodeme of subalpine Sorbus taxa. Acta Societatis Botanicorum Poloniae, 2011, 77, 305-311.	0.8	5
87	Effects of different ectomycorrhizal fungi on somatic embryogenesis of Abies cephalonica Loud. Plant Cell, Tissue and Organ Culture, 2012, 109, 353-361.	2.3	4
88	Effects of cadmium and lead stress on somatic embryogenesis of coniferous species. Part I: Evaluation of the genotype-dependent response. Acta Physiologiae Plantarum, 2017, 39, 1.	2.1	4
89	Antioxidant enzyme activity in Pinus mugo Turra, P. sylvestris L. and in their putative hybrids. Biologia (Poland), 2019, 74, 631-638.	1.5	4
90	Variation in leaf anatomy, vascular traits and nanomechanical cell-wall properties among European beech (Fagus sylvatica L.) provenances. Annals of Forest Science, 2020, 77, 1.	2.0	4

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91	Responses of Soil Microbial Activity and Functional Diversity to Disturbance Events in the Tatra National Park (Slovakia). , 2009, , 251-259.		4
92	Effective population size estimation in seed orchards: A case study of Pinus nigra ARNOLD and Fraxinus excelsior L./ F. angustifolia VAHL.. Genetika, 2013, 45, 575-588.	0.4	4
93	Reinforced evidence on partial compatibility between Pinus sylvestris and Pinus mugo and on maternal inheritance of chloroplast DNA in the Pinus mugo Ã— Pinus sylvestris cross. Silvae Genetica, 2020, 69, 108-115.	0.8	4
94	Environmental effects on species richness of macrophytes in Slovak streams. Open Life Sciences, 2012, 7, 1030-1036.	1.4	3
95	Changes in ATP, glucose-6-phosphate and NAD(P)H cellular levels during the proliferation and maturation phases of Abies alba Mill. embryogenic cultures. Tree Physiology, 2013, 33, 1099-1110.	3.1	3
96	Genetic status of the putative hybrid swarms of mountain dwarf pine and Scots pine in contact zones of their distribution in Slovakia. Biologia (Poland), 2015, 70, 1318-1325.	1.5	3
97	Small genome size variation across the range of European beech (Fagus sylvatica). Plant Systematics and Evolution, 2018, 304, 577-582.	0.9	3
98	Effect of storage on pollen viability in Pinus sylvestris L., Pinus mugo Turra and their hybrid swarms. Dendrobiology, 0, 82, 43-51.	0.6	3
99	Gene exchange across a postglacial contact zone in Fraxinus excelsior L.. Silvae Genetica, 2012, 61, 18-27.	0.8	3
100	Biotechnology Tools for Conservation of the Biodiversity of European and Mediterranean Abies Species. Sustainable Development and Biodiversity, 2014, , 287-310.	1.7	3
101	Inheritance and Linkage of Allozymes in a Balkan Endemic, Pinus peuce Griseb.. , 2002, 93, 60-63.		2
102	Spatial genotypical diversity of Sesleria albicans (Poaceae) in a dry grassland community. Biologia (Poland), 2007, 62, 670-674.	1.5	2
103	Seed quality in hybrid swarm populations of Pinus mugo Turra and P. sylvestris L.. Plant Systematics and Evolution, 2009, 277, 245-250.	0.9	2
104	Genetic variation of a widespread subdominant tree species (Acer campestre L.) in Bosnia and Herzegovina. Tree Genetics and Genomes, 2020, 16, 1.	1.6	2
105	From allozymes to NGS: population genetics of forest trees in Slovakia in the past 40 years. Biologia (Poland), 2021, 76, 2043-2050.	1.5	2
106	Hybridization Processes in Putative Hybrid Swarms of Scots Pine and Mountain Dwarf Pine as Revealed by Chloroplast DNA. Acta Biologica Cracoviensia Series Botanica, 2015, 56, 61-66.	0.5	2
107	Interspecific differentiation and gene exchange among the Slovak Quercus sect. Quercus populations. Dendrobiology, 0, 83, 20-29.	0.6	2
108	VoÄ¾ba lesnÃ©ho reprodukÄnÃ©ho materiÃ¡lu v podmienkach klimatickej zmeny / Choice of forest reproductive material under conditions of climate change. LesnÃ¢ky ÄŒasopis, 2015, 61, 124-130.	0.8	1

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109	Growth characteristics and needle structure in some interspecific hybrids of Abies cephalonica Loud. Dendrobiology, 0, 73, 47-53.	0.6	1
110	Pollen fertility and seed viability of putative hybrid swarms of Pinus sylvestris and Pinus mugo in Slovakia. Silvae Genetica, 2019, 68, 14-21.	0.8	1
111	Molecular Insight into Genetic Structure and Diversity of Putative Hybrid Swarms of Pinus sylvestris Ã— P. mugo in Slovakia. Forests, 2022, 13, 205.	2.1	0
112	Differential Effects of Tree Species on Soil Microbiota 45 Years after Afforestation of Former Pastures. Diversity, 2022, 14, 515.	1.7	0