

# Joachim Mergeay

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

3,199  
citations

172457

29  
h-index

182427

51  
g-index

80  
all docs

80  
docs citations

80  
times ranked

4541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drivers of population genetic differentiation in the wild: isolation by dispersal limitation, isolation by adaptation and isolation by colonization. <i>Molecular Ecology</i> , 2013, 22, 5983-5999.	3.9	398
2	Genetic diversity targets and indicators in the CBD post-2020 Global Biodiversity Framework must be improved. <i>Biological Conservation</i> , 2020, 248, 108654.	4.1	285
3	Invasion of an asexual American water flea clone throughout Africa and rapid displacement of a native sibling species. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2839-2844.	2.6	127
4	Landscape genomics and a common garden trial reveal adaptive differentiation to temperature across Europe in the tree species <i>Alnus glutinosa</i> . <i>Molecular Ecology</i> , 2014, 23, 4709-4721.	3.9	124
5	Rapid genetic adaptation precedes the spread of an exotic plant species. <i>Molecular Ecology</i> , 2014, 23, 2157-2164.	3.9	111
6	Lack of Phylogeographic Structure in the Freshwater Cyanobacterium <i>Microcystis aeruginosa</i> Suggests Global Dispersal. <i>PLoS ONE</i> , 2011, 6, e19561.	2.5	106
7	Global Commitments to Conserving and Monitoring Genetic Diversity Are Now Necessary and Feasible. <i>BioScience</i> , 2021, 71, 964-976.	4.9	96
8	EXTINCTION, RECOLONIZATION, AND DISPERSAL THROUGH TIME IN A PLANKTONIC CRUSTACEAN. <i>Ecology</i> , 2007, 88, 3032-3043.	3.2	84
9	The role of selection in driving landscape genomic structure of the waterflea <i>Daphnia magna</i> . <i>Molecular Ecology</i> , 2013, 22, 583-601.	3.9	74
10	Global genetic diversity status and trends: towards a suite of Essential Biodiversity Variables (<sc>EBVs</sc>) for genetic composition. <i>Biological Reviews</i> , 2022, 97, 1511-1538.	10.4	73
11	A cryptic invasion within an invasion and widespread introgression in the European water frog complex: consequences of uncontrolled commercial trade and weak international legislation. <i>Molecular Ecology</i> , 2008, 17, 5023-5035.	3.9	68
12	Cyclical Parthenogenesis in <i>Daphnia</i> : Sexual Versus Asexual Reproduction. , 2009, , 295-316.		66
13	Genetic diversity is considered important but interpreted narrowly in country reports to the Convention on Biological Diversity: Current actions and indicators are insufficient. <i>Biological Conservation</i> , 2021, 261, 109233.	4.1	65
14	THE CONTRIBUTION OF MATING SYSTEM VARIATION TO REPRODUCTIVE ISOLATION IN TWO CLOSELY RELATED <i>CENTAUURIUM</i> SPECIES (GENTIANACEAE) WITH A GENERALIZED FLOWER MORPHOLOGY. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1281-1293.	2.3	59
15	How to Maximally Support Local and Regional Biodiversity in Applied Conservation? Insights from Pond Management. <i>PLoS ONE</i> , 2013, 8, e72538.	2.5	57
16	The genetic legacy of polyploid Bolivian <i>Daphnia</i> : the tropical Andes as a source for the North and South American <i>D. pulicaria</i> complex. <i>Molecular Ecology</i> , 2008, 17, 1789-1800.	3.9	55
17	Local and regional founder effects in lake zooplankton persist after thousands of years despite high dispersal potential. <i>Molecular Ecology</i> , 2014, 23, 1014-1027.	3.9	55
18	Opportunities and challenges of macrogenetic studies. <i>Nature Reviews Genetics</i> , 2021, 22, 791-807.	16.3	55

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19	Rapid range expansion increases genetic differentiation while causing limited reduction in genetic diversity in a damselfly. <i>Heredity</i> , 2013, 111, 422-429.	2.6	54
20	Spatial heterogeneity in genetic relatedness among house sparrows along an urban-rural gradient as revealed by individual-based analysis. <i>Molecular Ecology</i> , 2011, 20, 4643-4653.	3.9	47
21	Cryptic invasion and dispersal of an American <i>Daphnia</i> in East Africa. <i>Limnology and Oceanography</i> , 2005, 50, 1278-1283.	3.1	46
22	Priority effects and species sorting in a long paleoecological record of repeated community assembly through time. <i>Ecology</i> , 2011, 92, 2267-2275.	3.2	46
23	Neutral and adaptive genomic signatures of rapid poleward range expansion. <i>Molecular Ecology</i> , 2015, 24, 6163-6176.	3.9	44
24	Daphnia community analysis in shallow Kenyan lakes and ponds using dormant eggs in surface sediments. <i>Freshwater Biology</i> , 2006, 51, 399-411.	2.4	43
25	Two hundred years of a diverse Daphnia community in Lake Naivasha (Kenya): effects of natural and human-induced environmental changes. <i>Freshwater Biology</i> , 2004, 49, 998-1013.	2.4	41
26	Effects of adding an arbuscular mycorrhizal fungi inoculum and of distance to donor sites on plant species recolonization following topsoil removal. <i>Applied Vegetation Science</i> , 2016, 19, 7-19.	1.9	38
27	2016, 4161, 1.	0.5	38
28	Strong differences in the clonal variation of two Daphnia species from mountain lakes affected by overwintering strategy. <i>BMC Evolutionary Biology</i> , 2011, 11, 231.	3.2	35
29	Ecological and evolutionary drivers of range size in <i>Ctenagrion</i> damselflies. <i>Journal of Evolutionary Biology</i> , 2014, 27, 2386-2395.	1.7	34
30	Genetic detection of multiple exotic water frog species in Belgium illustrates the need for monitoring and immediate action. <i>Biological Invasions</i> , 2010, 12, 1459-1463.	2.4	33
31	Effective population size remains a suitable, pragmatic indicator of genetic diversity for all species, including forest trees. <i>Biological Conservation</i> , 2021, 253, 108906.	4.1	32
32	Genetic diversity and population structure in contemporary house sparrow populations along an urbanization gradient. <i>Heredity</i> , 2012, 109, 163-172.	2.6	30
33	Agrobacterium rhizogenes-mediated transformation of Sesbania rostrata. <i>Plant Science</i> , 2003, 165, 1281-1288.	3.6	29
34	Daphnia in the Tatra Mountain lakes: multiple colonisation and hidden species diversity revealed by molecular markers. <i>Fundamental and Applied Limnology</i> , 2007, 169, 279-291.	0.7	29
35	Gene flow and effective population sizes of the butterfly <i>Maculinea alcon</i> in a highly fragmented, anthropogenic landscape. <i>Biological Conservation</i> , 2017, 209, 89-97.	4.1	29
36	Asexuality and polyploidy in <i>Daphnia</i> from the tropical Andes. <i>Limnology and Oceanography</i> , 2007, 52, 2079-2088.	3.1	28

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37	Temperature-related natural selection in a wind-pollinated tree across regional and continental scales. <i>Molecular Ecology</i> , 2011, 20, 2724-2738.	3.9	28
38	High levels of effective long-distance dispersal may blur ecotypic divergence in a rare terrestrial orchid. <i>BMC Ecology</i> , 2014, 14, 20.	3.0	28
39	An evaluation of seed zone delineation using phenotypic and population genomic data on black alder <i>Alnus glutinosa</i> . <i>Journal of Applied Ecology</i> , 2014, 51, 1218-1227.	4.0	27
40	Macrogenetic studies must not ignore limitations of genetic markers and scale. <i>Ecology Letters</i> , 2021, 24, 1282-1284.	6.4	27
41	Daphnia species diversity in Kenya, and a key to the identification of their ephippia. <i>Hydrobiologia</i> , 2005, 542, 261-274.	2.0	25
42	Long Distance Dispersal of Zooplankton Endemic to Isolated Mountaintops - an Example of an Ecological Process Operating on an Evolutionary Time Scale. <i>PLoS ONE</i> , 2011, 6, e26730.	2.5	25
43	SNP discovery using Paired-End RAD tag sequencing on pooled genomic DNA of <i>Sisymbrium austriacum</i> (Brassicaceae). <i>Molecular Ecology Resources</i> , 2013, 13, 269-275.	4.8	24
44	Transmission of genetic variation from the adult generation to naturally established seedling cohorts in small forest stands of pedunculate oak ( <i>Quercus robur</i> L.). <i>Forest Ecology and Management</i> , 2014, 312, 19-27.	3.2	23
45	Evolution, plasticity and evolving plasticity of phenology in the tree species <i>Alnus glutinosa</i> . <i>Journal of Evolutionary Biology</i> , 2016, 29, 253-264.	1.7	23
46	Developmental Stability Covaries with Genome-Wide and Single-Locus Heterozygosity in House Sparrows. <i>PLoS ONE</i> , 2011, 6, e21569.	2.5	21
47	Evolution and Biodiversity: the evolutionary basis of biodiversity and its potential for adaptation to global change. <i>Evolutionary Applications</i> , 2012, 5, 103-106.	3.1	21
48	Genotyping validates photo-identification by the head scale pattern in a large population of the European adder ( <i>Vipera berus</i> ). <i>Ecology and Evolution</i> , 2018, 8, 2985-2992.	1.9	18
49	Authors' Reply to Letter to the Editor: Continued improvement to genetic diversity indicator for CBD. <i>Conservation Genetics</i> , 2021, 22, 533-536.	1.5	18
50	Cladoceran community composition in tropical semi-arid highland reservoirs in Tigray (Northern Tj ETQq0 0 0 rgBT/Overlock, 10 Tf 50 2	1.5	17
51	Environment not dispersal limitation drives clonal composition of Arctic <i>Daphnia</i> in a recently deglaciated area. <i>Molecular Ecology</i> , 2016, 25, 5830-5842.	3.9	17
52	Unravelling the effects of contemporary and historical range expansion on the distribution of genetic diversity in the damselfly <i>Coenagrion scitulum</i> . <i>Journal of Evolutionary Biology</i> , 2014, 27, 748-759.	1.7	16
53	Transatlantic invasion routes and adaptive potential in North American populations of the invasive glossy buckthorn, <i>Frangula alnus</i> . <i>Annals of Botany</i> , 2016, 118, 1089-1099.	2.9	16
54	Testing the performance of a fragment of the COI gene to identify western Palaearctic stag beetle species (Coleoptera, Lucanidae). <i>ZooKeys</i> , 2013, 365, 105-126.	1.1	15

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55	Suppression of invasive topmouth gudgeon <i>Pseudorasbora parva</i> by native pike <i>Esox lucius</i> in ponds. Aquatic Conservation: Marine and Freshwater Ecosystems, 2015, 25, 41-48.	2.0	15
56	Tree density and population size affect pollen flow and mating patterns in small fragmented forest stands of pedunculate oak ( <i>Quercus robur</i> L.). Forest Ecology and Management, 2014, 328, 254-261.	3.2	14
57	Effect of the landscape matrix on gene flow in a coastal amphibian metapopulation. Conservation Genetics, 2017, 18, 1359-1375.	1.5	14
58	The effect of drought stress on heterozygosity and fitness correlations in pedunculate oak ( <i>Quercus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.9	12
59	Roe deer population structure in a highly fragmented landscape. European Journal of Wildlife Research, 2014, 60, 909-917.	1.4	12
60	Interspecific hybridisation and interaction with cultivars affect the genetic variation of <i>Ulmus minor</i> and <i>Ulmus glabra</i> in Flanders. Tree Genetics and Genomes, 2014, 10, 813-826.	1.6	11
61	Dispersal constraints for the conservation of the grassland herb <i>Thymus pulegioides</i> L. in a highly fragmented agricultural landscape. Conservation Genetics, 2015, 16, 765-776.	1.5	11
62	Founder effects determine the genetic structure of the water flea <i>Daphnia</i> in Ethiopian reservoirs. Limnology and Oceanography, 2018, 63, 915-926.	3.1	11
63	Reeves' muntjac populations continue to grow and spread across Great Britain and are invading continental Europe. European Journal of Wildlife Research, 2021, 67, 1.	1.4	10
64	Isolation, characterization and genotyping of single nucleotide polymorphisms in the non-model tree species <i>Frangula alnus</i> (Rhamnaceae). Conservation Genetics Resources, 2014, 6, 267-269.	0.8	9
65	The Impact of Conservation Management on the Community Composition of Multiple Organism Groups in Eutrophic Interconnected Man-Made Ponds. PLoS ONE, 2015, 10, e0139371.	2.5	9
66	Colonization history and clonal richness of asexual <i>Daphnia</i> in periglacial habitats of contrasting age in West Greenland. Journal of Animal Ecology, 2016, 85, 1108-1117.	2.8	9
67	Genetic support for the current discrete conservation unit of the Central European wolf population. Wildlife Biology, 2021, 2021, .	1.4	8
68	Differential effects of dominant and subordinate plant species on the establishment success of target species in a grassland restoration experiment. Applied Vegetation Science, 2017, 20, 363-375.	1.9	6
69	Retention of gene diversity during the spread of a non-native plant species. Molecular Ecology, 2017, 26, 3141-3150.	3.9	5
70	Microsatellite marker development and putative SNP detection for a northward expanding damselfly species using next generation sequencing. Conservation Genetics Resources, 2012, 4, 1079-1084.	0.8	4
71	The role of genetic diversity and arbuscular mycorrhizal fungal diversity in population recovery of the semi-natural grassland plant species <i>Succisa pratensis</i> . BMC Ecology and Evolution, 2021, 21, 200.	1.6	4
72	Genetic and demographic vulnerability of adder populations: Results of a genetic study in mainland Britain. PLoS ONE, 2020, 15, e0231809.	2.5	3

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73	Development and characterization of eight polymorphic microsatellite markers for <i>Daphnia atkinsoni</i> (Crustacea: Ctenodaphnia). Molecular Ecology Resources, 2009, 9, 326-329.	4.8	1
74	Genetic signature of the colonisation dynamics along a coastal expansion front in the damselfly <i>Coenagrion scitulum</i> . Ecological Entomology, 2015, 40, 353-361.	2.2	1
75	Metadata description of the ORCA database (ORganic and Conventional Agriculture's impact on) Tj ETQq1 1 0.784314 rgBT /Overloc	0.0	1
76	Database on local environmental conditions and biodiversity in fish ponds in Midden-Limburg, Belgium. Freshwater Metadata Journal, 0, , 1-8.	0.0	1