Julia Koricheva

List of Publications by Year
in descending order

Version: 2024-02-01

149 papers	16,298 citations	14655 66 h-index	17105 122 g-index
156 all docs	156 docs citations	156 times ranked	16933 citing authors

#	Article	IF	Citations
1	For the sake of resilience and multifunctionality, let's diversify planted forests!. Conservation Letters, 2022, 15, e12829.	5.7	124
2	Methods for testing publication bias in ecological and evolutionary metaâ€analyses. Methods in Ecology and Evolution, 2022, 13, 4-21.	5.2	106
3	Tree diversity effects on soil microbial biomass and respiration are context dependent across forest diversity experiments. Global Ecology and Biogeography, 2022, 31, 872-885.	5.8	16
4	Climate variability and aridity modulate the role of leaf shelters for arthropods: A global experiment. Global Change Biology, 2022, 28, 3694-3710.	9.5	12
5	Herbivory on the pedunculate oak along an urbanization gradient in Europe: Effects of impervious surface, local tree cover, and insect feeding guild. Ecology and Evolution, 2022, 12, e8709.	1.9	8
6	Climate affects neighbourâ€induced changes in leaf chemical defences and tree diversityâ€“herbivory relationships. Functional Ecology, 2021, 35, 67-81.	3.6	12
7	Training future generations to deliver evidenceâ€based conservation and ecosystem management. Ecological Solutions and Evidence, 2021, 2, e12032.	2.0	23
8	Tree Species Richness and Neighborhood Effects on Ectomycorrhizal Fungal Richness and Community Structure in Boreal Forest. Frontiers in Microbiology, 2021, 12, 567961.	3.5	13
9	Preferred reporting items for systematic reviews and metaâ€analyses in ecology and evolutionary biology: a <scp>PRISMA</scp> extension. Biological Reviews, 2021, 96, 1695-1722.	10.4	203
10	Predictability of Biotic Stress Structures Plant Defence Evolution. Trends in Ecology and Evolution, 2021, 36, 444-456.	8.7	48
11	A practical guide to question formation, systematic searching and study screening for literature reviews in ecology and evolution. Methods in Ecology and Evolution, 2021, 12, 1705-1720.	5.2	39
12	Interactions between mammalian grazers and plant pathogens: an elephant in the room?. New Phytologist, 2021, 232, 8-10.	7.3	0
13	Agrochemicals interact synergistically to increase bee mortality. Nature, 2021, 596, 389-392.	27.8	160
14	Search for topâ€down and bottomâ€up drivers of latitudinal trends in insect herbivory in oak trees in Europe. Global Ecology and Biogeography, 2021, 30, 651-665.	5.8	18
15	Tree diversity is key for promoting the diversity and abundance of forestâ€associated taxa in Europe. Oikos, 2020, 129, 133-146.	2.7	80
16	Tidying up the cluttered understorey: Foraging strategy mediates bat activity responses to invasive rhododendron. Forest Ecology and Management, 2020, 475, 118392.	3.2	1
17	Eight problems with literature reviews and how to fix them. Nature Ecology and Evolution, 2020, 4, 1582-1589.	7.8	88
18	Introducing our series: research synthesis and meta-research in biology. BMC Biology, 2020, 18, 20.	3.8	3

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19	Good things take timeâ€"Diversity effects on tree growth shift from negative to positive during stand development in boreal forests. Journal of Ecology, 2020, 108, 2198-2211.	4.0	21
20	Temporal Pass Plots: An intuitive method for visualising activity patterns of bats and other vocalising animals. Ecological Indicators, 2020, 113, 106202.	6.3	4
21	Shifts in woody plant defence syndromes during leaf development. Functional Ecology, 2019, 33, 2095-2104.	3.6	28
22	Responses of forest insect pests to climate change: not so simple. Current Opinion in Insect Science, 2019, 35, 103-108.	4.4	160
23	How do trees respond to species mixing in experimental compared to observational studies?. Ecology and Evolution, 2019, 9, 11254-11265.	1.9	8
24	Temporal Instability of Evidence Base: A Threat to Policy Making?. Trends in Ecology and Evolution, 2019, 34, 895-902.	8.7	51
25	Biotic predictors complement models of bat and bird responses to climate and tree diversity in European forests. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182193.	2.6	21
26	Metaâ€analysis of the role of entomopathogenic and unspecialized fungal endophytes as plant bodyguards. New Phytologist, 2019, 223, 2002-2010.	7.3	91
27	Contrasting effects of tree species and genetic diversity on the leaf-miner communities associated with silver birch. Oecologia, 2019, 189, 687-697.	2.0	15
28	Identifying the tree species compositions that maximize ecosystem functioning in European forests. Journal of Applied Ecology, 2019, 56, 733-744.	4.0	58
29	Forest diversity effects on insect herbivores: do leaf traits matter?. New Phytologist, 2019, 221, 2250-2260.	7.3	62
30	AURITA: an affordable, autonomous recording device for acoustic monitoring of audible and ultrasonic frequencies. Bioacoustics, 2019, 28, 381-396.	1.7	26
31	Meta-analysis and the science of research synthesis. Nature, 2018, 555, 175-182.	27.8	960
32	A million and more trees for science. Nature Ecology and Evolution, 2018, 2, 763-766.	7.8	90
33	The relative importance of plant intraspecific diversity in structuring arthropod communities: A metaâ€analysis. Functional Ecology, 2018, 32, 1704-1717.	3.6	72
34	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. Ecology Letters, 2018, 21, 31-42.	6.4	74
35	Earthworms affect plant growth and resistance against herbivores: A metaâ€analysis. Functional Ecology, 2018, 32, 150-160.	3.6	52
36	Empowering peer reviewers with a checklist to improve transparency. Nature Ecology and Evolution, 2018, 2, 929-935.	7.8	26

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37	Quantifying the impact of pesticides on learning and memory in bees. Journal of Applied Ecology, 2018, 55, 2812-2821.	4.0	114
38	Litter species richness and composition effects on fungal richness and community structure in decomposing foliar and root litter. Soil Biology and Biochemistry, 2018, 125, 328-339.	8.8	58
39	Over- and Underyielding in Time and Space in Experiments with Mixed Stands of Scots Pine and Norway Spruce. Forests, 2018, 9, 495.	2.1	23
40	Diversity-dependent temporal divergence of ecosystem functioning in experimental ecosystems. Nature Ecology and Evolution, 2017, 1, 1639-1642.	7.8	95
41	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. Ecology Letters, 2017, 20, 1414-1426.	6.4	244
42	Tree Diversity Drives Forest Stand Resistance to Natural Disturbances. Current Forestry Reports, 2017, 3, 223-243.	7.4	279
43	Going undercover: increasing canopy cover around a host tree drives associational resistance to an insect pest. Oikos, 2017, 126, 339-349.	2.7	13
44	Foliar fungi of Betula pendula: impact of tree species mixtures and assessment methods. Scientific Reports, 2017, 7, 41801.	3.3	26
45	Jack-of-all-trades effects drive biodiversityâ€“ecosystem multifunctionality relationships in European forests. Nature Communications, 2016, 7, 11109.	12.8	185
46	Fraud Not a Primary Cause of Irreproducible Results: A Reply to Clark et al.. Trends in Ecology and Evolution, 2016, 31, 900.	8.7	1
47	Transparency in Ecology and Evolution: Real Problems, Real Solutions. Trends in Ecology and Evolution, 2016, 31, 711-719.	8.7	151
48	A meta-analysis on the effects of changes in the composition of native forests on litter decomposition in streams. Forest Ecology and Management, 2016, 364, 27-38.	3.2	60
49	Effects of anthropogenic heavy metal contamination on litter decomposition in streams â€“ A meta-analysis. Environmental Pollution, 2016, 210, 261-270.	7.5	90
50	Biotic homogenization can decrease landscape-scale forest multifunctionality. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3557-3562.	7.1	196
51	Contributions of a global network of tree diversity experiments to sustainable forest plantations. Ambio, 2016, 45, 29-41.	5.5	203
52	Do birds see the forest for the trees? Scale-dependent effects of tree diversity on avian predation of artificial larvae. Oecologia, 2016, 180, 619-630.	2.0	57
53	Tree diversity and species identity effects on soil fungi, protists and animals are context dependent. ISME Journal, 2016, 10, 346-362.	9.8	307
54	Contrasting effects of tree diversity on young tree growth and resistance to insect herbivores across three biodiversity experiments. Oikos, 2015, 124, 1674-1685.	2.7	64

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55	Moose browsing alters tree diversity effects on birch growth and insect herbivory. Functional Ecology, 2015, 29, 724-735.	3.6	31
56	Additive and nonâ€additive effects of birch genotypic diversity on arthropod herbivory in a longâ€term field experiment. Oikos, 2015, 124, 697-706.	2.7	36
57	Globally, functional traits are weak predictors of juvenile tree growth, and we do not know why. Journal of Ecology, 2015, 103, 978-989.	4.0	131
58	A metaâ€analysis of the effects of nutrient enrichment on litter decomposition in streams. Biological Reviews, 2015, 90, 669-688.	10.4	208
59	Ecosystem engineering effects on species diversity across ecosystems: a metaâ€analysis. Biological Reviews, 2015, 90, 877-890.	10.4	138
60	Leaf traits influencing oviposition preference and larval performance of <scp>C</scp>ameraria ohridella on native and novel host plants. Entomologia Experimentalis Et Applicata, 2014, 152, 157-164.	1.4	19
61	Effects of plant phylogenetic diversity on herbivory depend on herbivore specialization. Journal of Applied Ecology, 2014, 51, 134-141.	4.0	150
62	Do diverse overstoreys induce diverse understoreys? Lessons learnt from an experimentalâ€“observational platform in Finland. Forest Ecology and Management, 2014, 318, 206-215.	3.2	32
63	Interactions and competition processes among tree species in young experimental mixed forests, assessed with chlorophyll fluorescence and leaf morphology. Plant Biology, 2014, 16, 323-331.	3.8	33
64	REVIEW: Can retention forestry help conserve biodiversity? A metaâ€analysis. Journal of Applied Ecology, 2014, 51, 1669-1679.	4.0	314
65	Uses and misuses of metaâ€analysis in plant ecology. Journal of Ecology, 2014, 102, 828-844.	4.0	285
66	A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. Perspectives in Plant Ecology, Evolution and Systematics, 2013, 15, 281-291.	2.7	179
67	Oviposition patterns and larval damage by the invasive horseâ€chestnut leaf miner Cameraria ohridella on different species of Aesculus. Ecological Entomology, 2013, 38, 456-462.	2.2	26
68	15. Temporal Trends in Effect Sizes: Causes, Detection, and Implications. , 2013, , 237-254.		26
69	20. Quality Standards for Research Syntheses. , 2013, , 323-338.		4
70	23. Role of Meta-analysis in Interpreting the Scientific Literature. , 2013, , 364-380.		6
71	24. Using Meta-analysis to Test Ecological and Evolutionary Theory. , 2013, , 381-406.		4
72	Effects of tree species richness and composition on moose winter browsing damage and foraging selectivity: an experimental study. Journal of Animal Ecology, 2013, 82, 739-748.	2.8	62

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73	Place of Meta-analysis among Other Methods of Research Synthesis. , 2013, , .		25
74	Temporal Trends in Effect Sizes: Causes, Detection, and Implications. , 2013, , .		25
75	Using Meta-analysis to Test Ecological and Evolutionary Theory. , 2013, , .		1
76	Conclusions: Past, Present, and Future of Meta-analysis in Ecology and Evolution. , 2013, , .		20
77	Quality Standards for Research Syntheses. , 2013, , .		24
78	Role of Meta-analysis in Interpreting the Scientific Literature. , 2013, , .		19
79	You get what you pay for: reward-specific trade-offs among direct and ant-mediated defences in plants. Biology Letters, 2012, 8, 628-630.	2.3	30
80	Temporal changes in plant secondary metabolite production. , 2012, , 34-55.		38
81	Aboveground–belowground herbivore interactions: a meta€analysis. Ecology, 2012, 93, 2208-2215.	3.2	148
82	Drought effects on damage by forest insects and pathogens: a meta€analysis. Global Change Biology, 2012, 18, 267-276.	9.5	381
83	A Meta-Analysis of Predation Risk Effects on Pollinator Behaviour. PLoS ONE, 2011, 6, e20689.	2.5	95
84	Contrasting cascade effects of carnivores on plant fitness: a meta-analysis. Journal of Animal Ecology, 2011, 80, 696-704.	2.8	74
85	Use of quality control charts for detection of outliers and temporal trends in cumulative meta€analysis. Research Synthesis Methods, 2010, 1, 297-307.	8.7	17
86	The Ontogeny of Plant Defense and Herbivory: Characterizing General Patterns Using Meta€Analysis. American Naturalist, 2010, 175, 481-493.	2.1	434
87	Does Publication in Top-Tier Journals Affect Reviewer Behavior?. PLoS ONE, 2009, 4, e6283.	2.5	10
88	To Name or Not to Name: The Effect of Changing Author Gender on Peer Review. BioScience, 2009, 59, 985-989.	4.9	62
89	From genes to ecosystems: a synthesis of the effects of plant genetic factors across levels of organization. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 1607-1616.	4.0	228
90	Effects of mycorrhizal fungi on insect herbivores: a meta€analysis. Ecology, 2009, 90, 2088-2097.	3.2	319

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91	Application of metabolomics to genotype and phenotype discrimination of birch trees grown in a long-term open-field experiment. Metabolomics, 2008, 4, 39-51.	3.0	47
92	Effects of stand tree species composition and diversity on abundance of predatory arthropods. Oikos, 2008, 117, 935-943.	2.7	67
93	Double-blind review favours increased representation of female authors. Trends in Ecology and Evolution, 2008, 23, 4-6.	8.7	401
94	Response to Webb et al.: Double-blind review: accept with minor revisions. Trends in Ecology and Evolution, 2008, 23, 353-354.	8.7	15
95	Response to Whittaker: challenges in testing for gender bias. Trends in Ecology and Evolution, 2008, 23, 480-481.	8.7	3
96	The impact of reed management on wildlife: A meta-analytical review of European studies. Biological Conservation, 2008, 141, 364-374.	4.1	66
97	Does it pay to have a â€œbigwigâ€•as a co-author?. Frontiers in Ecology and the Environment, 2008, 6, 410-411.	4.0	16
98	How big are bigwigs?: a reply to Havens. Frontiers in Ecology and the Environment, 2008, 6, 523-523.	4.0	0
99	Systematic Variation in Reviewer Practice According to Country and Gender in the Field of Ecology and Evolution. PLoS ONE, 2008, 3, e3202.	2.5	16
100	Publication bias and merit in ecology. Oikos, 2007, 116, 1247-1253.	2.7	4
101	Publication bias and merit in ecology. Oikos, 2007, 116, 1247-1253.	2.7	85
102	Effects of elevated O3, alone and in combination with elevated CO2, on tree leaf chemistry and insect herbivore performance: a meta-analysis. Global Change Biology, 2007, 13, 184-201.	9.5	164
103	Tree species diversity influences herbivore abundance and damage: meta-analysis of long-term forest experiments. Oecologia, 2007, 152, 287-298.	2.0	151
104	Experimental evidence for associational resistance against the European pine sawfly in mixed tree stands. Silva Fennica, 2007, 41, .	1.3	39
105	Host tree architecture mediates the effect of predators on herbivore survival. Ecological Entomology, 2006, 31, 227-235.	2.2	37
106	A Metaâ€Analysis of Genetic Correlations between Plant Resistances to Multiple Enemies. American Naturalist, 2006, 168, E15-E37.	2.1	71
107	Diversification of tree stands as a means to manage pests and diseases in boreal forests: myth or reality?. Canadian Journal of Forest Research, 2006, 36, 324-336.	1.7	107
108	Effects of forest management on the abundance of insect pests on Scots pine. Forest Ecology and Management, 2006, 231, 214-217.	3.2	26

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109	Model systems in ecology: dissecting the endophyteâ€“grass literature. Trends in Plant Science, 2006, 11, 428-433.	8.8	265
110	Moose and vole browsing patterns in experimentally assembled pure and mixed forest stands. Ecography, 2006, 29, 497-506.	4.5	61
111	A meta-analysis of tradeoffs between plant tolerance and resistance to herbivores: combining the evidence from ecological and agricultural studies. Oikos, 2006, 112, 1-9.	2.7	177
112	How general are positive relationships between plant population size, fitness and genetic variation?. Journal of Ecology, 2006, 94, 942-952.	4.0	756
113	Effects of tree stand species composition on insect herbivory of silver birch in boreal forests. Basic and Applied Ecology, 2006, 7, 1-11.	2.7	64
114	Leaf surface traits: overlooked determinants of birch resistance to herbivores and foliar micro-fungi?. Trees - Structure and Function, 2005, 19, 191-197.	1.9	59
115	Testing the enemies hypothesis in forest stands: the important role of tree species composition. Oecologia, 2005, 142, 90-97.	2.0	76
116	Delayed induced responses of birch glandular trichomes and leaf surface lipophilic compounds to mechanical defoliation and simulated winter browsing. Oecologia, 2005, 146, 385-393.	2.0	33
117	Does Scientific Collaboration Increase the Impact of Ecological Articles?. BioScience, 2005, 55, 438.	4.9	158
118	What determines the citation frequency of ecological papers?. Trends in Ecology and Evolution, 2005, 20, 28-32.	8.7	321
119	ECOSYSTEM EFFECTS OF BIODIVERSITY MANIPULATIONS IN EUROPEAN GRASSLANDS. Ecological Monographs, 2005, 75, 37-63.	5.4	439
120	The Phenomenon of Biodiversity. , 2004, , 27-53.		15
121	Cumulative metaâ€“analysis: a new tool for detection of temporal trends and publication bias in ecology. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 1961-1966.	2.6	137
122	Damage-induced changes in woody plants and their effects on insect herbivore performance: a meta-analysis. Oikos, 2004, 104, 247-268.	2.7	279
123	Changes in Leaf Trichomes and Epicuticular Flavonoids during Leaf Development in Three Birch Taxa. Annals of Botany, 2004, 94, 233-242.	2.9	101
124	Metaâ€analysis of Tradeâ€offs among Plant Antiherbivore Defenses: Are Plants Jacksâ€ofâ€Allâ€Trades, Masters of All?. American Naturalist, 2004, 163, E64-E75.	2.1	256
125	Non-significant results in ecology: a burden or a blessing in disguise?. Oikos, 2003, 102, 397-401.	2.7	63
126	Comparative Analysis of Leaf Trichome Structure and Composition of Epicuticular Flavonoids in Finnish Birch Species. Annals of Botany, 2003, 91, 643-655.	2.9	89

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127	META-ANALYSIS OF SOURCES OF VARIATION IN FITNESS COSTS OF PLANT ANTIHERBIVORE DEFENSES. Ecology, 2002, 83, 176-190.	3.2	340
128	Seasonal changes in birch leaf chemistry: are there trade-offs between leaf growth and accumulation of phenolics?. Oecologia, 2002, 130, 380-390.	2.0	232
129	The Carbon-Nutrient Balance Hypothesis is dead; long live the carbon-nutrient balance hypothesis?. Oikos, 2002, 98, 537-539.	2.7	98
130	Meta-Analysis of Sources of Variation in Fitness Costs of Plant Antiherbivore Defenses. Ecology, 2002, 83, 176.	3.2	10
131	Pitfalls in interpretation of allelochemical data in ecological studies: implications for plant-herbivore and allelopathic research. , 2002, , 219-244.		1
132	Tolerance to herbivory in woody vs. herbaceous plants. Evolutionary Ecology, 2000, 14, 551.	1.2	167
133	Numerical responses of different trophic groups of invertebrates to manipulations of plant diversity in grasslands. Oecologia, 2000, 125, 271-282.	2.0	280
134	Covariation of fluctuating asymmetry, herbivory and chemistry during birch leaf expansion. Oecologia, 2000, 122, 354-360.	2.0	69
135	Insects affect relationships between plant species richness and ecosystem processes. Ecology Letters, 1999, 2, 237-246.	6.4	211
136	Interpreting phenotypic variation in plant allelochemistry: problems with the use of concentrations. Oecologia, 1999, 119, 467-473.	2.0	149
137	Densities of endophytic fungi and performance of leafminers (Lepidoptera: Eriocraniidae) on birch along a pollution gradient. Environmental Pollution, 1999, 104, 99-105.	7.5	35
138	Biosynthetic origin of carbon-based secondary compounds: cause of variable responses of woody plants to fertilization?. Chemoecology, 1998, 8, 133-139.	1.1	155
139	Regulation of Woody Plant Secondary Metabolism by Resource Availability: Hypothesis Testing by Means of Meta-Analysis. Oikos, 1998, 83, 212.	2.7	476
140	LEAF FLUCTUATING ASYMMETRY INCREASES WITH HYBRIDIZATION AND ELEVATION IN TREE-LINE BIRCHES. Ecology, 1998, 79, 2092-2099.	3.2	90
141	Insect Performance on Experimentally Stressed Woody Plants: A Meta-Analysis. Annual Review of Entomology, 1998, 43, 195-216.	11.8	411
142	Low molecular mass phenolics in foliage of Betula pubescens Ehrh. in relation to aerial pollution. Chemosphere, 1997, 34, 687-697.	8.2	15
143	Antioxidant responses to simulated acid rain and heavy metal deposition in birch seedlings. Environmental Pollution, 1997, 95, 249-258.	7.5	78
144	Density patterns of gall mites (Acarina:Eriophyidae) in a polluted area. Environmental Pollution, 1996, 93, 345-352.	7.5	14

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145	Fluctuating Asymmetry of Birch Leaves Increases Under Pollution Impact. Journal of Applied Ecology, 1996, 33, 1489.	4.0	113
146	Ant predation of Eriocrania miners in a polluted area. Entomologia Experimentalis Et Applicata, 1995, 75, 75-82.	1.4	9
147	Variations in chemical composition of birch foliage under air pollution stress and their consequences for Eriocrania miners. Environmental Pollution, 1995, 88, 41-50.	7.5	38
148	The Relationship between Abundance and Performance of Eriocrania Miners in the Field: Effects of the Scale and Larval Traits Studied. Journal of Animal Ecology, 1994, 63, 714.	2.8	11
149	Effects of Air Pollution on Host Plant Quality, Individual Performance, and Population Density of Eriocrania Miners (Lepidoptera: Eriocraniidae). Environmental Entomology, 1992, 21, 1386-1392.	1.4	39