Julia Koricheva

List of Publications by Year in descending order

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

#	Article	IF	CITATIONS
1	Meta-analysis and the science of research synthesis. Nature, 2018, 555, 175-182.	27.8	960
2	How general are positive relationships between plant population size, fitness and genetic variation?. Journal of Ecology, 2006, 94, 942-952.	4.0	756
3	Regulation of Woody Plant Secondary Metabolism by Resource Availability: Hypothesis Testing by Means of Meta-Analysis. Oikos, 1998, 83, 212.	2.7	476
4	ECOSYSTEM EFFECTS OF BIODIVERSITY MANIPULATIONS IN EUROPEAN GRASSLANDS. Ecological Monographs, 2005, 75, 37-63.	5 . 4	439
5	The Ontogeny of Plant Defense and Herbivory: Characterizing General Patterns Using Metaâ€Analysis. American Naturalist, 2010, 175, 481-493.	2.1	434
6	Insect Performance on Experimentally Stressed Woody Plants: A Meta-Analysis. Annual Review of Entomology, 1998, 43, 195-216.	11.8	411
7	Double-blind review favours increased representation of female authors. Trends in Ecology and Evolution, 2008, 23, 4-6.	8.7	401
8	Drought effects on damage by forest insects and pathogens: a metaâ€analysis. Global Change Biology, 2012, 18, 267-276.	9.5	381
9	META-ANALYSIS OF SOURCES OF VARIATION IN FITNESS COSTS OF PLANT ANTIHERBIVORE DEFENSES. Ecology, 2002, 83, 176-190.	3. 2	340
10	What determines the citation frequency of ecological papers?. Trends in Ecology and Evolution, 2005, 20, 28-32.	8.7	321
11	Effects of mycorrhizal fungi on insect herbivores: a metaâ€analysis. Ecology, 2009, 90, 2088-2097.	3.2	319
12	REVIEW: Can retention forestry help conserve biodiversity? A metaâ€analysis. Journal of Applied Ecology, 2014, 51, 1669-1679.	4.0	314
13	Tree diversity and species identity effects on soil fungi, protists and animals are context dependent. ISME Journal, 2016, 10, 346-362.	9.8	307
14	Uses and misuses of metaâ€analysis in plant ecology. Journal of Ecology, 2014, 102, 828-844.	4.0	285
15	Numerical responses of different trophic groups of invertebrates to manipulations of plant diversity in grasslands. Oecologia, 2000, 125, 271-282.	2.0	280
16	Damage-induced changes in woody plants and their effects on insect herbivore performance: a meta-analysis. Oikos, 2004, 104, 247-268.	2.7	279
17	Tree Diversity Drives Forest Stand Resistance to Natural Disturbances. Current Forestry Reports, 2017, 3, 223-243.	7.4	279
18	Model systems in ecology: dissecting the endophyte–grass literature. Trends in Plant Science, 2006, 11, 428-433.	8.8	265

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19	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
20	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. Ecology Letters, 2017, 20, 1414-1426.	6.4	244
21	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
22	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
23	Insects affect relationships between plant species richness and ecosystem processes. Ecology Letters, 1999, 2, 237-246.	6.4	211
24	A metaâ€enalysis of the effects of nutrient enrichment on litter decomposition in streams. Biological Reviews, 2015, 90, 669-688.	10.4	208
25	Contributions of a global network of tree diversity experiments to sustainable forest plantations. Ambio, 2016, 45, 29-41.	5.5	203
26	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
27	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
28	Jack-of-all-trades effects drive biodiversity–ecosystem multifunctionality relationships in European forests. Nature Communications, 2016, 7, 11109.	12.8	185
29	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
30	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
31	Tolerance to herbivory in woody vs. herbaceous plants. Evolutionary Ecology, 2000, 14, 551.	1.2	167
32	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
33	Responses of forest insect pests to climate change: not so simple. Current Opinion in Insect Science, 2019, 35, 103-108.	4.4	160
34	Agrochemicals interact synergistically to increase bee mortality. Nature, 2021, 596, 389-392.	27.8	160
35	Does Scientific Collaboration Increase the Impact of Ecological Articles?. BioScience, 2005, 55, 438.	4.9	158
36	Biosynthetic origin of carbon-based secondary compounds: cause of variable responses of woody plants to fertilization?. Chemoecology, 1998, 8, 133-139.	1.1	155

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37	Tree species diversity influences herbivore abundance and damage: meta-analysis of long-term forest experiments. Oecologia, 2007, 152, 287-298.	2.0	151
38	Transparency in Ecology and Evolution: Real Problems, Real Solutions. Trends in Ecology and Evolution, 2016, 31, 711-719.	8.7	151
39	Effects of plant phylogenetic diversity on herbivory depend on herbivore specialization. Journal of Applied Ecology, 2014, 51, 134-141.	4.0	150
40	Interpreting phenotypic variation in plant allelochemistry: problems with the use of concentrations. Oecologia, 1999, 119, 467-473.	2.0	149
41	Aboveground–belowground herbivore interactions: a metaâ€analysis. Ecology, 2012, 93, 2208-2215.	3.2	148
42	Ecosystem engineering effects on species diversity across ecosystems: a metaâ€analysis. Biological Reviews, 2015, 90, 877-890.	10.4	138
43	Cumulative meta–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
44	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
45	For the sake of resilience and multifunctionality, let's diversify planted forests!. Conservation Letters, 2022, 15, e12829.	5.7	124
46	Quantifying the impact of pesticides on learning and memory in bees. Journal of Applied Ecology, 2018, 55, 2812-2821.	4.0	114
47	Fluctuating Asymmetry of Birch Leaves Increases Under Pollution Impact. Journal of Applied Ecology, 1996, 33, 1489.	4.0	113
48	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
49	Methods for testing publication bias in ecological and evolutionary metaâ€analyses. Methods in Ecology and Evolution, 2022, 13, 4-21.	5.2	106
50	Changes in Leaf Trichomes and Epicuticular Flavonoids during Leaf Development in Three Birch Taxa. Annals of Botany, 2004, 94, 233-242.	2.9	101
51	The Carbon-Nutrient Balance Hypothesis is dead; long live the carbon-nutrient balance hypothesis?. Oikos, 2002, 98, 537-539.	2.7	98
52	A Meta-Analysis of Predation Risk Effects on Pollinator Behaviour. PLoS ONE, 2011, 6, e20689.	2.5	95
53	Diversity-dependent temporal divergence of ecosystem functioning in experimental ecosystems. Nature Ecology and Evolution, 2017, 1, 1639-1642.	7.8	95
54	Metaâ€analysis of the role of entomopathogenic and unspecialized fungal endophytes as plant bodyguards. New Phytologist, 2019, 223, 2002-2010.	7.3	91

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55	LEAF FLUCTUATING ASYMMETRY INCREASES WITH HYBRIDIZATION AND ELEVATION IN TREE-LINE BIRCHES. Ecology, 1998, 79, 2092-2099.	3.2	90
56	Effects of anthropogenic heavy metal contamination on litter decomposition in streams – A meta-analysis. Environmental Pollution, 2016, 210, 261-270.	7.5	90
57	A million and more trees for science. Nature Ecology and Evolution, 2018, 2, 763-766.	7.8	90
58	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
59	Eight problems with literature reviews and how to fix them. Nature Ecology and Evolution, 2020, 4, 1582-1589.	7.8	88
60	Publication bias and merit in ecology. Oikos, 2007, 116, 1247-1253.	2.7	85
61	Tree diversity is key for promoting the diversity and abundance of forestâ€associated taxa in Europe. Oikos, 2020, 129, 133-146.	2.7	80
62	Antioxidant responses to simulated acid rain and heavy metal deposition in birch seedlings. Environmental Pollution, 1997, 95, 249-258.	7.5	78
63	Testing the enemies hypothesis in forest stands: the important role of tree species composition. Oecologia, 2005, 142, 90-97.	2.0	76
64	Contrasting cascade effects of carnivores on plant fitness: a meta-analysis. Journal of Animal Ecology, 2011, 80, 696-704.	2.8	74
65	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. Ecology Letters, 2018, 21, 31-42.	6.4	74
66	The relative importance of plant intraspecific diversity in structuring arthropod communities: A metaâ€analysis. Functional Ecology, 2018, 32, 1704-1717.	3.6	72
67	A Metaâ€Analysis of Genetic Correlations between Plant Resistances to Multiple Enemies. American Naturalist, 2006, 168, E15-E37.	2.1	71
68	Covariation of fluctuating asymmetry, herbivory and chemistry during birch leaf expansion. Oecologia, 2000, 122, 354-360.	2.0	69
69	Effects of stand tree species composition and diversity on abundance of predatory arthropods. Oikos, 2008, 117, 935-943.	2.7	67
70	The impact of reed management on wildlife: A meta-analytical review of European studies. Biological Conservation, 2008, 141, 364-374.	4.1	66
71	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
72	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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73	Non-significant results in ecology: a burden or a blessing in disguise?. Oikos, 2003, 102, 397-401.	2.7	63
74	To Name or Not to Name: The Effect of Changing Author Gender on Peer Review. BioScience, 2009, 59, 985-989.	4.9	62
75	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
76	Forest diversity effects on insect herbivores: do leaf traits matter?. New Phytologist, 2019, 221, 2250-2260.	7.3	62
77	Moose and vole browsing patterns in experimentally assembled pure and mixed forest stands. Ecography, 2006, 29, 497-506.	4.5	61
78	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
79	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
80	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
81	Identifying the tree species compositions that maximize ecosystem functioning in European forests. Journal of Applied Ecology, 2019, 56, 733-744.	4.0	58
82	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
83	Earthworms affect plant growth and resistance against herbivores: A metaâ€analysis. Functional Ecology, 2018, 32, 150-160.	3.6	52
84	Temporal Instability of Evidence Base: A Threat to Policy Making?. Trends in Ecology and Evolution, 2019, 34, 895-902.	8.7	51
85	Predictability of Biotic Stress Structures Plant Defence Evolution. Trends in Ecology and Evolution, 2021, 36, 444-456.	8.7	48
86	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
87	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
88	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
89	Experimental evidence for associational resistance against the European pine sawfly in mixed tree stands. Silva Fennica, 2007, 41, .	1.3	39
90	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

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91	Temporal changes in plant secondary metabolite production. , 2012, , 34-55.		38
92	Host tree architecture mediates the effect of predators on herbivore survival. Ecological Entomology, 2006, 31, 227-235.	2.2	37
93	Additive and nonâ€additive effects of birch genotypic diversity on arthropod herbivory in a longâ€ŧerm field experiment. Oikos, 2015, 124, 697-706.	2.7	36
94	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
95	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
96	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
97	Do diverse overstoreys induce diverse understoreys? Lessons learnt from an experimental–observational platform in Finland. Forest Ecology and Management, 2014, 318, 206-215.	3.2	32
98	Moose browsing alters tree diversity effects on birch growth and insect herbivory. Functional Ecology, 2015, 29, 724-735.	3.6	31
99	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
100	Shifts in woody plant defence syndromes during leaf development. Functional Ecology, 2019, 33, 2095-2104.	3.6	28
101	Effects of forest management on the abundance of insect pests on Scots pine. Forest Ecology and Management, 2006, 231, 214-217.	3. 2	26
102	Oviposition patterns and larval damage by the invasive horseâ€chestnut leaf miner <i>Cameraria ohridella</i> on different species of <i>Aesculus</i> Ecological Entomology, 2013, 38, 456-462.	2.2	26
103	15. Temporal Trends in Effect Sizes: Causes, Detection, and Implications. , 2013, , 237-254.		26
104	Empowering peer reviewers with a checklist to improve transparency. Nature Ecology and Evolution, 2018, 2, 929-935.	7.8	26
105	AURITA: an affordable, autonomous recording device for acoustic monitoring of audible and ultrasonic frequencies. Bioacoustics, 2019, 28, 381-396.	1.7	26
106	Foliar fungi of Betula pendula: impact of tree species mixtures and assessment methods. Scientific Reports, 2017, 7, 41801.	3.3	26
107	Place of Meta-analysis among Other Methods of Research Synthesis. , 2013, , .		25
108	Temporal Trends in Effect Sizes: Causes, Detection, and Implications. , 2013, , .		25

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109	Quality Standards for Research Syntheses. , 2013, , .		24
110	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
111	Training future generations to deliver evidenceâ€based conservation and ecosystem management. Ecological Solutions and Evidence, 2021, 2, e12032.	2.0	23
112	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
113	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
114	Conclusions: Past, Present, and Future of Meta-analysis in Ecology and Evolution., 2013,,.		20
115	Leaf traits influencing oviposition preference and larval performance of <i><scp>C</scp>ameraria ohridella</i> on native and novel host plants. Entomologia Experimentalis Et Applicata, 2014, 152, 157-164.	1.4	19
116	Role of Meta-analysis in Interpreting the Scientific Literature. , 2013, , .		19
117	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
118	Use of quality control charts for detection of outliers and temporal trends in cumulative metaâ€analysis. Research Synthesis Methods, 2010, 1, 297-307.	8.7	17
119	Does it pay to have a "bigwig―as a co-author?. Frontiers in Ecology and the Environment, 2008, 6, 410-411.	4.0	16
120	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
121	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
122	Low molecular mass phenolics in foliage of Betula pubescens Ehrh. in relation to aerial pollution. Chemosphere, 1997, 34, 687-697.	8.2	15
123	The Phenomenon of Biodiversity. , 2004, , 27-53.		15
124	Response to Webb et al.: Double-blind review: accept with minor revisions. Trends in Ecology and Evolution, 2008, 23, 353-354.	8.7	15
125	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
126	Density patterns of gall mites (Acarina:Eriophyidae) in a polluted area. Environmental Pollution, 1996, 93, 345-352.	7. 5	14

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127	Going undercover: increasing canopy cover around a host tree drives associational resistance to an insect pest. Oikos, 2017, 126, 339-349.	2.7	13
128	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
129	Climate affects neighbourâ€induced changes in leaf chemical defences and tree diversity–herbivory relationships. Functional Ecology, 2021, 35, 67-81.	3.6	12
130	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
131	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
132	Does Publication in Top-Tier Journals Affect Reviewer Behavior?. PLoS ONE, 2009, 4, e6283.	2.5	10
133	Meta-Analysis of Sources of Variation in Fitness Costs of Plant Antiherbivore Defenses. Ecology, 2002, 83, 176.	3.2	10
134	Ant predation of Eriocrania miners in a polluted area. Entomologia Experimentalis Et Applicata, 1995, 75, 75-82.	1.4	9
135	How do trees respond to species mixing in experimental compared to observational studies?. Ecology and Evolution, 2019, 9, 11254-11265.	1.9	8
136	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
137	23. Role of Meta-analysis in Interpreting the Scientific Literature. , 2013, , 364-380.		6
138	Publication bias and merit in ecology. Oikos, 2007, 116, 1247-1253.	2.7	4
139	20. Quality Standards for Research Syntheses. , 2013, , 323-338.		4
140	24. Using Meta-analysis to Test Ecological and Evolutionary Theory. , 2013, , 381-406.		4
141	Temporal Pass Plots: An intuitive method for visualising activity patterns of bats and other vocalising animals. Ecological Indicators, 2020, 113, 106202.	6.3	4
142	Response to Whittaker: challenges in testing for gender bias. Trends in Ecology and Evolution, 2008, 23, 480-481.	8.7	3
143	Introducing our series: research synthesis and meta-research in biology. BMC Biology, 2020, 18, 20.	3.8	3
144	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

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145	Tidying up the cluttered understorey: Foraging strategy mediates bat activity responses to invasive rhododendron. Forest Ecology and Management, 2020, 475, 118392.	3.2	1
146	Using Meta-analysis to Test Ecological and Evolutionary Theory. , 2013, , .		1
147	Pitfalls in interpretation of allelochemical data in ecological studies: implications for plant-herbivore and allelopathic research. , 2002, , 219-244.		1
148	How big are bigwigs?: a reply to Havens. Frontiers in Ecology and the Environment, 2008, 6, 523-523.	4.0	0
149	Interactions between mammalian grazers and plant pathogens: an elephant in the room?. New Phytologist, 2021, 232, 8-10.	7.3	0