

Andrew Hector

List of Publications by Year in descending order

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Version: 2024-02-01

149
papers

38,276
citations

12597

71
h-index

11608

140
g-index

158
all docs

158
docs citations

158
times ranked

32271
citing authors

#	ARTICLE	IF	CITATIONS
1	For the sake of resilience and multifunctionality, let's diversify planted forests!. Conservation Letters, 2022, 15, e12829.	2.8	124
2	The importance of biodiverse plant communities for healthy soils. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	2
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.	2.7	16
4	Demographic consequences of heterogeneity in conspecific density dependence among mast-fruiting tropical trees. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, .	1.2	5
5	Increasing effects of chronic nutrient enrichment on plant diversity loss and ecosystem productivity over time. Ecology, 2021, 102, e03218.	1.5	62
6	Biotic homogenization destabilizes ecosystem functioning by decreasing spatial asynchrony. Ecology, 2021, 102, e03332.	1.5	74
7	Arbuscular mycorrhizal trees influence the latitudinal beta-diversity gradient of tree communities in forests worldwide. Nature Communications, 2021, 12, 3137.	5.8	28
8	The response of plants, carabid beetles and birds to 30 years of native reforestation in the Scottish Highlands. Journal of Applied Ecology, 2021, 58, 2185-2194.	1.9	3
9	Grand challenges in biodiversity—ecosystem functioning research in the era of science—policy platforms require explicit consideration of feedbacks. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210783.	1.2	8
10	General destabilizing effects of eutrophication on grassland productivity at multiple spatial scales. Nature Communications, 2020, 11, 5375.	5.8	75
11	Fast and furious: Early differences in growth rate drive short-term plant dominance and exclusion under eutrophication. Ecology and Evolution, 2020, 10, 10116-10129.	0.8	5
12	Associational resistance to both insect and pathogen damage in mixed forests is modulated by tree neighbour identity and drought. Journal of Ecology, 2020, 108, 1511-1522.	1.9	31
13	The global abundance of tree palms. Global Ecology and Biogeography, 2020, 29, 1495-1514.	2.7	62
14	Monitoring tropical forest degradation and restoration with satellite remote sensing: A test using Sabah Biodiversity Experiment. Advances in Ecological Research, 2020, 62, 117-146.	1.4	15
15	Direct and indirect effects of climate on richness drive the latitudinal diversity gradient in forest trees. Ecology Letters, 2019, 22, 245-255.	3.0	92
16	Maintaining ecosystem properties after loss of ash in Great Britain. Journal of Applied Ecology, 2019, 56, 282-293.	1.9	13
17	Positive effects of liana cutting on seedlings are reduced during El Niño-induced drought. Journal of Applied Ecology, 2019, 56, 891-901.	1.9	18
18	Individual tree traits shape insect and disease damage on oak in a climate-matching tree diversity experiment. Ecology and Evolution, 2019, 9, 8524-8540.	0.8	11

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19	Not even wrong: Comment by Loreau and Hector. <i>Ecology</i> , 2019, 100, e02794.	1.5	13
20	The £15 billion cost of ash dieback in Britain. <i>Current Biology</i> , 2019, 29, R315-R316.	1.8	57
21	Drought cuts back regeneration in logged tropical forests. <i>Environmental Research Letters</i> , 2019, 14, 045012.	2.2	17
22	Quantifying effects of biodiversity on ecosystem functioning across times and places. <i>Ecology Letters</i> , 2018, 21, 763-778.	3.0	157
23	A million and more trees for science. <i>Nature Ecology and Evolution</i> , 2018, 2, 763-766.	3.4	90
24	Phylogenetic classification of the world's tropical forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1837-1842.	3.3	144
25	Synthesis and future research directions linking tree diversity to growth, survival, and damage in a global network of tree diversity experiments. <i>Environmental and Experimental Botany</i> , 2018, 152, 68-89.	2.0	113
26	Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. <i>Nature Ecology and Evolution</i> , 2018, 2, 50-56.	3.4	172
27	Impacts of species richness on productivity in a large-scale subtropical forest experiment. <i>Science</i> , 2018, 362, 80-83.	6.0	433
28	The importance of competition for light depends on productivity and disturbance. <i>Ecology and Evolution</i> , 2018, 8, 10655-10661.	0.8	18
29	Global importance of large-diameter trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 849-864.	2.7	330
30	Multiple facets of biodiversity drive the diversity-stability relationship. <i>Nature Ecology and Evolution</i> , 2018, 2, 1579-1587.	3.4	296
31	Abundance distributions for tree species in Great Britain: A two-stage approach to modeling abundance using species distribution modeling and random forest. <i>Ecology and Evolution</i> , 2017, 7, 1043-1056.	0.8	37
32	Linking the influence and dependence of people on biodiversity across scales. <i>Nature</i> , 2017, 546, 65-72.	13.7	474
33	Diversity-dependent temporal divergence of ecosystem functioning in experimental ecosystems. <i>Nature Ecology and Evolution</i> , 2017, 1, 1639-1642.	3.4	95
34	Resistance of tropical seedlings to drought is mediated by neighbourhood diversity. <i>Nature Ecology and Evolution</i> , 2017, 1, 1643-1648.	3.4	46
35	Toward a methodical framework for comprehensively assessing forest multifunctionality. <i>Ecology and Evolution</i> , 2017, 7, 10652-10674.	0.8	41
36	Forest diversity promotes individual tree growth in central European forest stands. <i>Journal of Applied Ecology</i> , 2017, 54, 71-79.	1.9	51

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37	A multi-species synthesis of physiological mechanisms in drought-induced tree mortality. <i>Nature Ecology and Evolution</i> , 2017, 1, 1285-1291.	3.4	739
38	Do the rich get richer? Varying effects of tree species identity and diversity on the richness of understory taxa. <i>Ecology</i> , 2016, 97, 2364-2373.	1.5	23
39	Jack-of-all-trades effects drive biodiversity-ecosystem multifunctionality relationships in European forests. <i>Nature Communications</i> , 2016, 7, 11109.	5.8	185
40	Testing the importance of a common ectomycorrhizal network for dipterocarp seedling growth and survival in tropical forests of Borneo. <i>Plant Ecology and Diversity</i> , 2016, 9, 563-576.	1.0	14
41	The value of biodiversity for the functioning of tropical forests: insurance effects during the first decade of the Sabah biodiversity experiment. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161451.	1.2	35
42	Understanding the value of plant diversity for ecosystem functioning through niche theory. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160536.	1.2	96
43	Genetic diversity of two tropical tree species of the Dipterocarpaceae following logging and restoration in Borneo: high genetic diversity in plots with high species diversity. <i>Plant Ecology and Diversity</i> , 2016, 9, 459-469.	1.0	18
44	Plant diversity effects on grassland productivity are robust to both nutrient enrichment and drought. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150277.	1.8	169
45	Growth rates and relative change in non-structural carbohydrates of dipterocarp seedlings in response to light acclimation. <i>Plant Ecology and Diversity</i> , 2016, 9, 491-504.	1.0	2
46	A Synthesis is Emerging between Biodiversity-Ecosystem Function and Ecological Resilience Research: Reply to Mori. <i>Trends in Ecology and Evolution</i> , 2016, 31, 89-92.	4.2	14
47	Comment on "Worldwide evidence of a unimodal relationship between productivity and plant species richness". <i>Science</i> , 2016, 351, 457-457.	6.0	16
48	Integrative modelling reveals mechanisms linking productivity and plant species richness. <i>Nature</i> , 2016, 529, 390-393.	13.7	564
49	Impact of species diversity, stand age and environmental factors on leaf litter decomposition in subtropical forests in China. <i>Plant and Soil</i> , 2016, 400, 337-350.	1.8	45
50	Spatio-temporal water uptake patterns of tree saplings are not altered by interspecific interaction in the early stage of a subtropical forest. <i>Forest Ecology and Management</i> , 2016, 367, 52-61.	1.4	14
51	Contributions of a global network of tree diversity experiments to sustainable forest plantations. <i>Ambio</i> , 2016, 45, 29-41.	2.8	203
52	An estimate of the number of tropical tree species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7472-7477.	3.3	335
53	Strikingly high effect of geographic location on fauna and flora of European agricultural grasslands. <i>Basic and Applied Ecology</i> , 2015, 16, 281-290.	1.2	9
54	Biodiversity enhances ecosystem multifunctionality across trophic levels and habitats. <i>Nature Communications</i> , 2015, 6, 6936.	5.8	515

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55	Globally, functional traits are weak predictors of juvenile tree growth, and we do not know why. <i>Journal of Ecology</i> , 2015, 103, 978-989.	1.9	131
56	Biodiversity and Resilience of Ecosystem Functions. <i>Trends in Ecology and Evolution</i> , 2015, 30, 673-684.	4.2	916
57	Biodiversity increases the resistance of ecosystem productivity to climate extremes. <i>Nature</i> , 2015, 526, 574-577.	13.7	1,032
58	Plant species' origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. <i>Nature Communications</i> , 2015, 6, 7710.	5.8	143
59	Contrasting nonstructural carbohydrate dynamics of tropical tree seedlings under water deficit and variability. <i>New Phytologist</i> , 2015, 205, 1083-1094.	3.5	64
60	Mixed-Effects Models. , 2015, , 141-164.		0
61	Maximum Likelihood and Generalized Linear Models. , 2015, , 113-120.		0
62	Comparisons Using Estimates and Intervals. , 2015, , 67-82.		0
63	Analysis of Covariance: ANCOVA. , 2015, , 101-112.		0
64	A trait-based trade-off between growth and mortality: evidence from 15 tropical tree species using size-specific relative growth rates. <i>Ecology and Evolution</i> , 2014, 4, 3675-3688.	0.8	57
65	Multifunctionality does not imply that all functions are positively correlated. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5490.	3.3	31
66	Eutrophication weakens stabilizing effects of diversity in natural grasslands. <i>Nature</i> , 2014, 508, 521-525.	13.7	409
67	Herbivores and nutrients control grassland plant diversity via light limitation. <i>Nature</i> , 2014, 508, 517-520.	13.7	669
68	Drought survival of tropical tree seedlings enhanced by non-structural carbohydrate levels. <i>Nature Climate Change</i> , 2014, 4, 710-714.	8.1	360
69	Gains to species diversity in organically farmed fields are not propagated at the farm level. <i>Nature Communications</i> , 2014, 5, 4151.	5.8	89
70	Investigating the relationship between biodiversity and ecosystem multifunctionality: challenges and solutions. <i>Methods in Ecology and Evolution</i> , 2014, 5, 111-124.	2.2	533
71	Biodiversity effects on ecosystem functioning change along environmental stress gradients. <i>Ecology Letters</i> , 2013, 16, 568-569.	3.0	108
72	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. <i>Global Change Biology</i> , 2013, 19, 3677-3687.	4.2	70

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73	Coexistence, niches and biodiversity effects on ecosystem functioning. <i>Ecology Letters</i> , 2013, 16, 116-127.	3.0	134
74	A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013, 15, 281-291.	1.1	179
75	Biodiversity Promotes Tree Growth during Succession in Subtropical Forest. <i>PLoS ONE</i> , 2013, 8, e81246.	1.1	110
76	The Influence of Variable Rainfall Frequency on Germination and Early Growth of Shade-Tolerant Dipterocarp Seedlings in Borneo. <i>PLoS ONE</i> , 2013, 8, e70287.	1.1	26
77	Do grassland plant communities profit from N partitioning by soil depth?. <i>Ecology</i> , 2012, 93, 2386-2396.	1.5	45
78	Plant growth rates and seed size: a reevaluation. <i>Ecology</i> , 2012, 93, 1283-1289.	1.5	54
79	Response to Comments on "Productivity Is a Poor Predictor of Plant Species Richness". <i>Science</i> , 2012, 335, 1441-1441.	6.0	30
80	Differential growth responses in seedlings of ten species of Dipterocarpaceae to experimental shading and defoliation. <i>Journal of Tropical Ecology</i> , 2012, 28, 377-384.	0.5	16
81	Biodiversity effects on ecosystem functioning change along environmental stress gradients. <i>Ecology Letters</i> , 2012, 15, 1397-1405.	3.0	142
82	Niche and fitness differences relate the maintenance of diversity to ecosystem function: comment. <i>Ecology</i> , 2012, 93, 1482-1487.	1.5	58
83	Carbon Stocks and Fluxes in Tropical Lowland Dipterocarp Rainforests in Sabah, Malaysian Borneo. <i>PLoS ONE</i> , 2012, 7, e29642.	1.1	95
84	Effects of Dominance and Diversity on Productivity along Ellenberg's Experimental Water Table Gradients. <i>PLoS ONE</i> , 2012, 7, e43358.	1.1	19
85	Ingestion by an endemic frugivore enhances seed germination of endemic plant species but decreases seedling survival of exotics. <i>Journal of Biogeography</i> , 2012, 39, 2021-2030.	1.4	8
86	Light-based Regeneration Niches: Evidence from 21 Dipterocarp Species using Size-specific RGRs. <i>Biotropica</i> , 2012, 44, 627-636.	0.8	47
87	How to fit nonlinear plant growth models and calculate growth rates: an update for ecologists. <i>Methods in Ecology and Evolution</i> , 2012, 3, 245-256.	2.2	446
88	A large-scale forest fragmentation experiment: the Stability of Altered Forest Ecosystems Project. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3292-3302.	1.8	244
89	Community assembly during secondary forest succession in a Chinese subtropical forest. <i>Ecological Monographs</i> , 2011, 81, 25-41.	2.4	222
90	High plant diversity is needed to maintain ecosystem services. <i>Nature</i> , 2011, 477, 199-202.	13.7	1,195

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91	Diverse marsh plant communities are more consistently productive across a range of different environmental conditions through functional complementarity. <i>Journal of Applied Ecology</i> , 2011, 48, 1117-1124.	1.9	26
92	Diversity favours productivity. <i>Nature</i> , 2011, 472, 45-46.	13.7	25
93	Challenges for biodiversity research in Europe. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 13, 83-100.	0.5	8
94	Productivity Is a Poor Predictor of Plant Species Richness. <i>Science</i> , 2011, 333, 1750-1753.	6.0	463
95	Positive effects of ectomycorrhizal colonization on growth of seedlings of a tropical tree across a range of forest floor light conditions. <i>Plant and Soil</i> , 2011, 338, 411-421.	1.8	14
96	The future of South East Asian rainforests in a changing landscape and climate. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3165-3167.	1.8	11
97	Conclusion: applying South East Asia Rainforest Research Programme science to land-use management policy and practice in a changing landscape and climate. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3354-3358.	1.8	3
98	Impacts of logging on density-dependent predation of dipterocarp seeds in a South East Asian rainforest. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3246-3255.	1.8	60
99	The Sabah Biodiversity Experiment: a long-term test of the role of tree diversity in restoring tropical forest structure and functioning. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3303-3315.	1.8	87
100	Seeing the fruit for the trees in Borneo. <i>Conservation Letters</i> , 2011, 4, 184-191.	2.8	31
101	BUGS in the Analysis of Biodiversity Experiments: Species Richness and Composition Are of Similar Importance for Grassland Productivity. <i>PLoS ONE</i> , 2011, 6, e17434.	1.1	62
102	Modelling the growth of parasitic plants. <i>Journal of Ecology</i> , 2010, 98, 857-866.	1.9	62
103	Analysis of variance with unbalanced data: an update for ecology & evolution. <i>Journal of Animal Ecology</i> , 2010, 79, 308-316.	1.3	126
104	How to get even with pests. <i>Nature</i> , 2010, 466, 36-37.	13.7	13
105	General stabilizing effects of plant diversity on grassland productivity through population asynchrony and overyielding. <i>Ecology</i> , 2010, 91, 2213-2220.	1.5	410
106	Mass Fruiting in Borneo: A Missed Opportunity. <i>Science</i> , 2010, 330, 584-584.	6.0	21
107	Effects of Seed Predators of Different Body Size on Seed Mortality in Bornean Logged Forest. <i>PLoS ONE</i> , 2010, 5, e11651.	1.1	28
108	III.14 Biodiversity and Ecosystem Functioning. , 2009, , 367-375.		3

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109	Competition for Light Causes Plant Biodiversity Loss After Eutrophication. <i>Science</i> , 2009, 324, 636-638.	6.0	1,050
110	Biodiversity in forest carbon sequestration initiatives: not just a side benefit. <i>Current Opinion in Environmental Sustainability</i> , 2009, 1, 55-60.	3.1	155
111	A Linear Model Method for Biodiversity's Ecosystem Functioning Experiments. <i>American Naturalist</i> , 2009, 174, 836-849.	1.0	85
112	Reduced soil respiration in gaps in logged lowland dipterocarp forests. <i>Forest Ecology and Management</i> , 2009, 258, 2007-2012.	1.4	16
113	Effects of biodiversity on the functioning of ecosystems: a summary of 164 experimental manipulations of species richness. <i>Ecology</i> , 2009, 90, 854-854.	1.5	36
114	Belowground nitrogen partitioning in experimental grassland plant communities of varying species richness. <i>Ecology</i> , 2009, 90, 1389-1399.	1.5	126
115	The analysis of biodiversity experiments: from pattern toward mechanism. , 2009, , 94-104.		27
116	Light partitioning in experimental grass communities. <i>Oikos</i> , 2008, 117, 1351-1361.	1.2	70
117	Biodiversity effects and transgressive overyielding. <i>Journal of Plant Ecology</i> , 2008, 1, 95-102.	1.2	160
118	Large-Scale Biodiversity Experiments. , 2007, , 583-589.		0
119	Impacts of plant diversity on biomass production increase through time because of species complementarity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18123-18128.	3.3	1,175
120	Large-Scale Biodiversity Experiments. , 2007, , 1-9.		0
121	Biodiversity and ecosystem multifunctionality. <i>Nature</i> , 2007, 448, 188-190.	13.7	975
122	Differences in Light Interception in Grass Monocultures Predict Short-Term Competitive Outcomes under Productive Conditions. <i>PLoS ONE</i> , 2007, 2, e499.	1.1	44
123	Seed size variability: from carob to carats. <i>Biology Letters</i> , 2006, 2, 397-400.	1.0	31
124	Conventional functional classification schemes underestimate the relationship with ecosystem functioning. <i>Ecology Letters</i> , 2006, 9, 111-120.	3.0	236
125	Overyielding and stable species coexistence. <i>New Phytologist</i> , 2006, 172, 1-3.	3.5	37
126	Resource dilution effects on specialist insect herbivores in a grassland biodiversity experiment. <i>Journal of Animal Ecology</i> , 2005, 74, 234-240.	1.3	226

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127	Species richness, temporal variability and resistance of biomass production in a Mediterranean grassland. <i>Oikos</i> , 2005, 110, 115-123.	1.2	111
128	EFFECTS OF BIODIVERSITY ON ECOSYSTEM FUNCTIONING: A CONSENSUS OF CURRENT KNOWLEDGE. <i>Ecological Monographs</i> , 2005, 75, 3-35.	2.4	5,856
129	ECOSYSTEM EFFECTS OF BIODIVERSITY MANIPULATIONS IN EUROPEAN GRASSLANDS. <i>Ecological Monographs</i> , 2005, 75, 37-63.	2.4	439
130	Seed mass and the competition/colonization trade-off: competitive interactions and spatial patterns in a guild of annual plants. <i>Journal of Ecology</i> , 2004, 92, 97-109.	1.9	153
131	Species evenness and productivity in experimental plant communities. <i>Oikos</i> , 2004, 107, 50-63.	1.2	197
132	The value of biodiversity experiments. <i>Basic and Applied Ecology</i> , 2004, 5, 535-542.	1.2	61
133	HOW DO DIFFERENT MEASURES OF FUNCTIONAL DIVERSITY PERFORM?. <i>Ecology</i> , 2004, 85, 847-857.	1.5	384
134	ECOLOGY: Darwin and the First Ecological Experiment. <i>Science</i> , 2002, 295, 639-640.	6.0	117
135	Biodiversity and ecosystem productivity: implications for carbon storage. <i>Oikos</i> , 2002, 97, 443-448.	1.2	111
136	The role of legumes as a component of biodiversity in a cross-European study of grassland biomass nitrogen. <i>Oikos</i> , 2002, 98, 205-218.	1.2	321
137	Overyielding in grassland communities: testing the sampling effect hypothesis with replicated biodiversity experiments. <i>Ecology Letters</i> , 2002, 5, 502-511.	3.0	258
138	Biodiversity and Ecosystem Functioning: Current Knowledge and Future Challenges. <i>Science</i> , 2001, 294, 804-808.	6.0	3,551
139	Conservation implications of the link between biodiversity and ecosystem functioning. <i>Oecologia</i> , 2001, 129, 624-628.	0.9	80
140	Local adaptation enhances performance of common plant species. <i>Ecology Letters</i> , 2001, 4, 536-544.	3.0	401
141	Community diversity and invasion resistance: An experimental test in a grassland ecosystem and a review of comparable studies. <i>Ecological Research</i> , 2001, 16, 819-831.	0.7	211
142	Partitioning selection and complementarity in biodiversity experiments. <i>Nature</i> , 2001, 412, 72-76.	13.7	2,493
143	The Functioning of European Grassland Ecosystems: Potential Benefits of Biodiversity to Agriculture. <i>Outlook on Agriculture</i> , 2001, 30, 179-185.	1.8	63
144	Consequences of the reduction of plant diversity for litter decomposition: effects through litter quality and microenvironment. <i>Oikos</i> , 2000, 90, 357-371.	1.2	263

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145	Getting the measure of biodiversity. <i>Nature</i> , 2000, 405, 212-219.	13.7	1,024
146	Plant Diversity and Productivity Experiments in European Grasslands. <i>Science</i> , 1999, 286, 1123-1127.	6.0	1,757
147	The Effect of Diversity on Productivity: Detecting the Role of Species Complementarity. <i>Oikos</i> , 1998, 82, 597.	1.2	222
148	Does restoring native forest restore ecosystem functioning? Evidence from a large-scale reforestation project in the Scottish Highlands. <i>Restoration Ecology</i> , 0, , e13530.	1.4	2
149	Removing subordinate species in a biodiversity experiment to mimic observational field studies. , 0, , .		4