Bernhard Schmid

List of Publications by Citations

418 papers	37,197 citations	87 h-index	183 g-index
517 ext. papers	43,090 ext. citations	6.2 avg, IF	7.06 L-index

#	Paper	IF	Citations
418	EFFECTS OF BIODIVERSITY ON ECOSYSTEM FUNCTIONING: A CONSENSUS OF CURRENT KNOWLEDGE. *Ecological Monographs*, **2005**, 75, 3-35	9	4768
417	Biodiversity and ecosystem functioning: current knowledge and future challenges. *Science*, **2001**, 294, 804-8	33.3	2942
416	Quantifying the evidence for biodiversity effects on ecosystem functioning and services. *Ecology Letters*, **2006**, 9, 1146-56	10	1690
415	Plant diversity and productivity experiments in european grasslands. *Science*, **1999**, 286, 1123-7	33.3	1472
414	High plant diversity is needed to maintain ecosystem services. *Nature*, **2011**, 477, 199-202	50.4	907
413	Biodiversity increases the resistance of ecosystem productivity to climate extremes. *Nature*, **2015**, 526, 574-7	50.4	647
412	Bottom-up effects of plant diversity on multitrophic interactions in a biodiversity experiment. *Nature*, **2010**, 468, 553-6	50.4	614
411	Positive biodiversity-productivity relationship predominant in global forests. *Science*, **2016**, 354,	33.3	593
410	The role of biodiversity for element cycling and trophic interactions: an experimental approach in a grassland community. *Basic and Applied Ecology*, **2004**, 5, 107-121	3.2	452
409	Consequences of biodiversity loss for litter decomposition across biomes. *Nature*, **2014**, 509, 218-21	50.4	447
408	TRY plant trait database - enhanced coverage and open access. *Global Change Biology*, **2020**, 26, 119-188	11.4	399
407	ECOSYSTEM EFFECTS OF BIODIVERSITY MANIPULATIONS IN EUROPEAN GRASSLANDS. *Ecological Monographs*, **2005**, 75, 37-63	9	383
406	Local adaptation enhances performance of common plant species. *Ecology Letters*, **2001**, 4, 536-544	10	350
405	Janzen-Connell effects are widespread and strong enough to maintain diversity in grasslands. *Ecology*, **2008**, 89, 2399-406	4.6	347
404	Diversity-dependent production can decrease the stability of ecosystem functioning. *Nature*, **2002**, 416, 84-6	50.4	327
403	General stabilizing effects of plant diversity on grassland productivity through population asynchrony and overyielding. *Ecology*, **2010**, 91, 2213-20	4.6	306
402	The role of legumes as a component of biodiversity in a cross-European study of grassland biomass nitrogen. *Oikos*, **2002**, 98, 205-218	4	279

401	The effect of nutrient availability on biomass allocation patterns in 27 species of herbaceous plants. *Perspectives in Plant Ecology, Evolution and Systematics*, **2000**, 3, 115-127	3	266
400	Plant species richness and functional composition drive overyielding in a six-year grassland experiment. *Ecology*, **2009**, 90, 3290-302	4.6	263
399	Positive interactions between nitrogen-fixing legumes and four different neighbouring species in a biodiversity experiment. *Oecologia*, **2007**, 151, 190-205	2.9	246
398	Plant diversity effects on soil heterotrophic activity in experimental grassland ecosystems. *Plant and Soil*, **2000**, 224, 217-230	4.2	233
397	Numerical responses of different trophic groups of invertebrates to manipulations of plant diversity in grasslands. *Oecologia*, **2000**, 125, 271-282	2.9	232
396	Overyielding in grassland communities: testing the sampling effect hypothesis with replicated biodiversity experiments. *Ecology Letters*, **2002**, 5, 502-511	10	231
395	Plant diversity affects culturable soil bacteria in experimental grassland communities. *Journal of Ecology*, **2000**, 88, 988-998	6	230
394	Overyielding in experimental grassland communities irrespective of species pool or spatial scale. *Ecology Letters*, **2005**, 8, 419-429	10	226
393	Impacts of species richness on productivity in a large-scale subtropical forest experiment. *Science*, **2018**, 362, 80-83	33.3	220
392	Conventional functional classification schemes underestimate the relationship with ecosystem functioning. *Ecology Letters*, **2006**, 9, 111-20	10	212
391	Selection for niche differentiation in plant communities increases biodiversity effects. *Nature*, **2014** , 515, 108-11	50.4	210
390	Latitudinal population differentiation in two species of Solidago (Asteraceae) introduced into Europe. *American Journal of Botany*, **1998**, 85, 1110-1121	2.7	209
389	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. *Nature*, **2019**, 569, 404-408	50.4	203
388	ECOSYSTEM EFFECTS OF BIODIVERSITY: A CLASSIFICATION OF HYPOTHESES AND EXPLORATION OF EMPIRICAL RESULTS **1999**, 9, 893-912		201
387	Belowground biodiversity effects of plant symbionts support aboveground productivity. *Ecology Letters*, **2011**, 14, 1001-9	10	200
386	Soil environmental conditions rather than denitrifier abundance and diversity drive potential denitrification after changes in land uses. *Global Change Biology*, **2011**, 17, 1975-1989	11.4	196
385	Using plant functional traits to explain diversity-productivity relationships. *PLoS ONE*, **2012**, 7, e36760	3.7	195
384	Biodiversity effects increase linearly with biotope space. *Ecology Letters*, **2004**, 7, 574-583	10	194

383	Predicting ecosystem stability from community composition and biodiversity. *Ecology Letters*, **2013**, 16, 617-25	10	190
382	Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. *Basic and Applied Ecology*, **2017**, 23, 1-73	3.2	184
381	Community assembly during secondary forest succession in a Chinese subtropical forest. *Ecological Monographs*, **2011**, 81, 25-41	9	184
380	Above-ground resource use increases with plant species richness in experimental grassland ecosystems. *Functional Ecology*, **2000**, 14, 326-337	5.6	183
379	Designing forest biodiversity experiments: general considerations illustrated by a new large experiment in subtropical China. *Methods in Ecology and Evolution*, **2014**, 5, 74-89	7.7	179
378	Mycorrhizal fungal identity and diversity relaxes plant-plant competition. *Ecology*, **2011**, 92, 1303-13	4.6	179
377	Isolation and characterization of microsatellite loci in the bearded vulture (Gypaetus barbatus) and cross-amplification in three old world vulture species. *Molecular Ecology*, **2000**, 9, 2193-5	5.7	177
376	Long-term persistence in a changing climate: DNA analysis suggests very old ages of clones of alpine Carex curvula. *Oecologia*, **1996**, 105, 94-99	2.9	176
375	The ecological forecast horizon, and examples of its uses and determinants. *Ecology Letters*, **2015**, 18, 597-611	10	174
374	Soil feedbacks of plant diversity on soil microbial communities and subsequent plant growth. *Perspectives in Plant Ecology, Evolution and Systematics*, **2005**, 7, 27-49	3	170
373	Conservation of arthropod diversity in montane wetlands: effect of altitude, habitat quality and habitat fragmentation on butterflies and grasshoppers. *Journal of Applied Ecology*, **1999**, 36, 363-373	5.8	164
372	Effectiveness of the Swiss agri-environment scheme in promoting biodiversity. *Journal of Applied Ecology*, **2005**, 43, 120-127	5.8	159
371	Species evenness and productivity in experimental plant communities. *Oikos*, **2004**, 107, 50-63	4	158
370	Strong contribution of autumn phenology to changes in satellite-derived growing season length estimates across Europe (1982-2011). *Global Change Biology*, **2014**, 20, 3457-70	11.4	154
369	The species richness□productivity controversy. *Trends in Ecology and Evolution*, **2002**, 17, 113-114	10.9	151
368	Fear of the dark or dinner by moonlight? Reduced temporal partitioning among Africa's large carnivores. *Ecology*, **2012**, 93, 2590-9	4.6	150
367	Niche pre-emption increases with species richness in experimental plant communities. *Journal of Ecology*, **2007**, 95, 65-78	6	150
366	Biodiversity effects and transgressive overyielding. *Journal of Plant Ecology*, **2008**, 1, 95-102	1.7	143

365	The Swiss agri-environment scheme enhances pollinator diversity and plant reproductive success in nearby intensively managed farmland. *Journal of Applied Ecology*, **2007**, 44, 813-822	5.8	140
364	Evolutionary ecology of the prezygotic stage. *Science*, **2004**, 303, 971-5	33.3	138
363	Diverse pollinator communities enhance plant reproductive success. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 4845-52	4.4	136
362	RAPD variation among and within small and large populations of the rare clonal plant Ranunculus reptans (Ranunculaceae). *American Journal of Botany*, **2000**, 87, 1128-1137	2.7	134
361	Reduced competitive ability in an invasive plant. *Ecology Letters*, **2004**, 7, 346-353	10	131
360	Root hemiparasites and plant diversity in experimental grassland communities. *Journal of Ecology*, **2000**, 88, 634-644	6	131
359	Mapping functional diversity from remotely sensed morphological and physiological forest traits. *Nature Communications*, **2017**, 8, 1441	17.4	129
358	Effects of ski piste preparation on alpine vegetation. *Journal of Applied Ecology*, **2005**, 42, 306-316	5.8	128
357	A test of the generality of leaf trait relationships on the Tibetan Plateau. *New Phytologist*, **2006**, 170, 835-48	9.8	127
356	Long-term study of root biomass in a biodiversity experiment reveals shifts in diversity effects over time. *Oikos*, **2014**, 123, 1528-1536	4	126
355	Genetic differentiation of life-history traits within populations of the clonal plant Ranunculus reptans. *Oikos*, **2000**, 90, 442-456	4	124
354	Plant diversity enhances provision of ecosystem services: A new synthesis. *Basic and Applied Ecology*, **2010**, 11, 582-593	3.2	119
353	Genotypic richness and dissimilarity opposingly affect ecosystem functioning. *Ecology Letters*, **2011**, 14, 537-45	10	118
352	Environmental factors covary with plant diversity–productivity relationships among Chinese grassland sites. *Global Ecology and Biogeography*, **2010**, 19, 233-243	6.1	115
351	The Future of Complementarity: Disentangling Causes from Consequences. *Trends in Ecology and Evolution*, **2019**, 34, 167-180	10.9	115
350	Plant diversity effects on grassland productivity are robust to both nutrient enrichment and drought. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371,	5.8	114
349	Positive biodiversity–productivity relationship due to increased plant density. *Journal of Ecology*, **2009**, 97, 696-704	6	111
348	Interaction diversity within quantified insect food webs in restored and adjacent intensively managed meadows. *Journal of Animal Ecology*, **2007**, 76, 1015-25	4.7	111

347	Genetic isolation of fragmented populations is exacerbated by drift and selection. *Journal of Evolutionary Biology*, **2007**, 20, 534-42	2.3	109
346	Clonal Growth in Grassland Perennials: I. Density and Pattern-Dependent Competition Between Plants with Different Growth Forms. *Journal of Ecology*, **1985**, 73, 793	6	106
345	Belowground nitrogen partitioning in experimental grassland plant communities of varying species richness. *Ecology*, **2009**, 90, 1389-99	4.6	105
344	A LONG-TERM FIELD STUDY ON BIODIVERSITY ELEVATED CO2 INTERACTIONS IN GRASSLAND. *Ecological Monographs*, **2001**, 71, 341-356	9	104
343	Growth Variation in a Naturally Established Population of Pinus Sylvestris. *Ecology*, **1994**, 75, 660-670	4.6	104
342	Does biodiversity increase spatial stability in plant community biomass?. *Ecology Letters*, **2008**, 11, 338-47	10	103
341	Analysis of variance with unbalanced data: an update for ecology & evolution. *Journal of Animal Ecology*, **2010**, 79, 308-16	4.7	100
340	Establishment success in a forest biodiversity and ecosystem functioning experiment in subtropical China (BEF-China). *European Journal of Forest Research*, **2013**, 132, 593-606	2.7	99
339	Community niche predicts the functioning of denitrifying bacterial assemblages. *Ecology*, **2009**, 90, 3324-32	4.6	98
338	Aboveground overyielding in grassland mixtures is associated with reduced biomass partitioning to belowground organs. *Ecology*, **2009**, 90, 1520-30	4.6	97
337	A link between plant diversity, elevated CO and soil nitrate. *Oecologia*, **2001**, 127, 540-548	2.9	97
336	NO EVIDENCE FOR AN EVOLUTIONARY INCREASED COMPETITIVE ABILITY IN AN INVASIVE PLANT. *Ecology*, **2003**, 84, 2816-2823	4.6	96
335	Plant foraging and dynamic competition between branches of Pinus sylvestris in contrasting light environments. *Journal of Ecology*, **1998**, 86, 934-945	6	92
334	Effects of intraspecific competition on size variation and reproductive allocation in a clonal plant. *Oikos*, **2001**, 94, 515-524	4	92
333	Size dependency of sexual reproduction and of clonal growth in two perennial plants. *Canadian Journal of Botany*, **1995**, 73, 1831-1837		92
332	Effects of Genetic Diversity in Experimental Stands of Solidago Altissima -- Evidence for the Potential Role of Pathogens as Selective Agents in Plant Populations. *Journal of Ecology*, **1994**, 82, 165	6	90
331	Aesthetic quality of agricultural landscape elements in different seasonal stages in Switzerland. *Landscape and Urban Planning*, **2015**, 133, 67-77	7.7	86
330	Effects of population size and pollen diversity on reproductive success and offspring size in the narrow endemic Cochlearia bavarica (Brassicaceae). *American Journal of Botany*, **2002**, 89, 1250-9	2.7	85

329	Biodiversity-multifunctionality relationships depend on identity and number of measured functions. *Nature Ecology and Evolution*, **2018**, 2, 44-49	12.3	85
328	Tree species richness increases ecosystem carbon storage in subtropical forests. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	84
327	Effects of plant diversity on invertebrate herbivory in experimental grassland. *Oecologia*, **2006**, 147, 489-500	2.9	84
326	Rapid decay of diversity-productivity relationships after invasion of experimental plant communities. *Basic and Applied Ecology*, **2004**, 5, 5-14	3.2	84
325	Biodiversity across trophic levels drives multifunctionality in highly diverse forests. *Nature Communications*, **2018**, 9, 2989	17.4	83
324	Biodiversity promotes tree growth during succession in subtropical forest. *PLoS ONE*, **2013**, 8, e81246	3.7	83
323	Identifying population- and community-level mechanisms of diversity–stability relationships in experimental grasslands. *Journal of Ecology*, **2011**, 99, 1460-1469	6	83
322	Effects of plant diversity on Collembola in an experimental grassland ecosystem. *Oikos*, **2004**, 106, 51-60	4	83
321	A comparison of the strength of biodiversity effects across multiple functions. *Oecologia*, **2013**, 173, 223-37	2.9	82
320	Biodiversity and ecosystem functioning: reconciling the results of experimental and observational studies. *Functional Ecology*, **2007**, 21, 998-1002	5.6	82
319	Clonal Integration and Population Structure in Perennials: Effects of Severing Rhizome Connections. *Ecology*, **1987**, 68, 2016-2022	4.6	81
318	Clonal integration and effects of simulated herbivory in old-field perennials. *Oecologia*, **1988**, 75, 465-471	1.9	81
317	Plant–pollinator network assembly along the chronosequence of a glacier foreland. *Oikos*, **2010**, 119, 1610-1624	4	80
316	Clonal integration in Ranunculus reptans: by-product or adaptation?. *Journal of Evolutionary Biology* , **2000**, 13, 237-248	2.3	80
315	Diversity promotes temporal stability across levels of ecosystem organization in experimental grasslands. *PLoS ONE*, **2010**, 5, e13382	3.7	79
314	EFFECTS OF MATERNAL AND PATERNAL ENVIRONMENT AND GENOTYPE ON OFFSPRING PHENOTYPE IN SOLIDAGO ALTISSIMA L. *Evolution; International Journal of Organic Evolution*, **1994**, 48, 1525-1549	3.8	76
313	Quantifying effects of biodiversity on ecosystem functioning across times and places. *Ecology Letters*, **2018**, 21, 763-778	10	75
312	Geophagy by large mammals at natural licks in the rain forest of the Dzanga National Park, Central African Republic. *Journal of Tropical Ecology*, **1998**, 14, 829-839	1.3	74

311	Interactive effects of diversity, nutrients and elevated CO2 on experimental plant communities. *Oikos*, **2002**, 97, 337-348	4	73
310	Differential effects of plant diversity on functional trait variation of grass species. *Annals of Botany*, **2011**, 107, 157-69	4.1	72
309	Precipitation modifies the effects of warming and nitrogen addition on soil microbial communities in northern Chinese grasslands. *Soil Biology and Biochemistry*, **2015**, 89, 12-23	7.5	71
308	Monitoring biodiversity in the Anthropocene using remote sensing in species distribution models. *Remote Sensing of Environment*, **2020**, 239, 111626	13.2	70
307	Complementary nitrogen use among potentially dominant species in a biodiversity experiment varies between two years. *Journal of Ecology*, **2008**, 96, 477-488	6	70
306	Non-random species extinction and plant production: implications for ecosystem functioning. *Journal of Applied Ecology*, **2005**, 42, 13-24	5.8	69
305	On the combined effect of soil fertility and topography on tree growth in subtropical forest ecosystems□ study from SE China. *Journal of Plant Ecology*, **2017**, 10, 111-127	1.7	68
304	A trait-based experimental approach to understand the mechanisms underlying biodiversity□ecosystem functioning relationships. *Basic and Applied Ecology*, **2014**, 15, 229-240	3.2	68
303	Effects of Maternal and Paternal Environment and Genotype on Offspring Phenotype in Solidago altissima L.. *Evolution; International Journal of Organic Evolution*, **1994**, 48, 1525	3.8	67
302	Contribution of epigenetic variation to adaptation in Arabidopsis. *Nature Communications*, **2018**, 9, 4446	17.4	67
301	Plant traits affecting herbivory on tree recruits in highly diverse subtropical forests. *Ecology Letters*, **2012**, 15, 732-9	10	66
300	The Jena Experiment: six years of data from a grassland biodiversity experiment. *Ecology*, **2010**, 91, 930-931	4.6	66
299	Growth rates, seed size, and physiology: do small-seeded species really grow faster?. *Ecology*, **2008**, 89, 1352-63	4.6	65
298	Species richness and identity affect the use of aboveground space in experimental grasslands. *Perspectives in Plant Ecology, Evolution and Systematics*, **2008**, 10, 73-87	3	65
297	Seed dynamics and seedling establishment in the invading perennial Solidago altissima under different experimental treatments. *Journal of Ecology*, **1999**, 87, 28-41	6	64
296	Predator diversity and abundance provide little support for the enemies hypothesis in forests of high tree diversity. *PLoS ONE*, **2011**, 6, e22905	3.7	63
295	Biology, chance, or history? The predictable reassembly of temperate grassland communities. *Ecology*, **2010**, 91, 408-21	4.6	63
294	Complementarity among species in horizontal versus vertical rooting space. *Journal of Plant Ecology*, **2008**, 1, 33-41	1.7	63

293	Population size and the nature of genetic load in Gentianella germanica. *Evolution; International Journal of Organic Evolution*, **2003**, 57, 2242-51	3.8	63
292	Biodiversity promotes primary productivity and growing season lengthening at the landscape scale. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 10160-10165	11.5	62
291	Transgene x environment interactions in genetically modified wheat. *PLoS ONE*, **2010**, 5, e11405	3.7	62
290	A linear model method for biodiversity-ecosystem functioning experiments. *American Naturalist*, **2009**, 174, 836-49	3.7	62
289	EXPERIMENTAL LIFE-HISTORY EVOLUTION: SELECTION ON THE ALLOCATION TO SEXUAL REPRODUCTION AND ITS PLASTICITY IN A CLONAL PLANT. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 2168-2177	3.8	62
288	Detecting the role of individual species for overyielding in experimental grassland communities composed of potentially dominant species. *Oecologia*, **2007**, 154, 535-49	2.9	61
287	Functionally and phylogenetically diverse plant communities key to soil biota. *Ecology*, **2013**, 94, 1878-85	4.6	60
286	Effects of ecological compensation meadows on arthropod diversity in adjacent intensively managed grassland. *Biological Conservation*, **2010**, 143, 642-649	6.2	60
285	Plant foraging and rhizome growth patterns of Solidago altissima in response to mowing and fertilizer application. *Journal of Ecology*, **1998**, 86, 341-354	6	60
284	Effects of biodiversity strengthen over time as ecosystem functioning declines at low and increases at high biodiversity. *Ecosphere*, **2016**, 7, e01619	3.1	60
283	Soil environmental conditions and microbial build-up mediate the effect of plant diversity on soil nitrifying and denitrifying enzyme activities in temperate grasslands. *PLoS ONE*, **2013**, 8, e61069	3.7	59
282	PLASTIC RELATIONSHIPS BETWEEN REPRODUCTIVE AND VEGETATIVE MASS IN SOLIDAGO ALTISSIMA. *Evolution; International Journal of Organic Evolution*, **1993**, 47, 61-74	3.8	59
281	Linking individual-level functional traits to tree growth in a subtropical forest. *Ecology*, **2016**, 97, 2396-2405	4.6	58
280	A guide to analyzing biodiversity experiments. *Journal of Plant Ecology*, **2017**, 10, 91-110	1.7	58
279	Variation in species richness of plants and diverse groups of invertebrates in three calcareous grasslands of the Swiss Jura mountains. *Revue Suisse De Zoologie*, **1996**, 103, 801-833	0.3	58
278	Genetic Allee effects on performance, plasticity and developmental stability in a clonal plant. *Ecology Letters*, **2000**, 3, 530-539	10	58
277	Nutrient enrichment in calcareous fens: effects on plant species and community structure. *Basic and Applied Ecology*, **2002**, 3, 255-266	3.2	57
276	COSTS OF PLASTICITY IN FORAGING CHARACTERISTICS OF THE CLONAL PLANT RANUNCULUS REPTANS. *Evolution; International Journal of Organic Evolution*, **2000**, 54, 1947-1955	3.8	57

275	A field study of the effects of elevated CO2 and plant species diversity on ecosystem-level gas exchange in a planted calcareous grassland. *Global Change Biology*, **1999**, 5, 95-105	11.4	57
274	Influence of plant diversity and elevated atmospheric carbon dioxide levels on belowground bacterial diversity. *BMC Microbiology*, **2006**, 6, 68	4.5	56
273	A functional trait-based approach to understand community assembly and diversity–productivity relationships over 7 years in experimental grasslands. *Perspectives in Plant Ecology, Evolution and Systematics*, **2013**, 15, 139-149	3	55
272	Taxonomic, phylogenetic, and environmental trade-offs between leaf productivity and persistence. *Ecology*, **2009**, 90, 2779-91	4.6	55
271	COSTS OF PLASTICITY IN FORAGING CHARACTERISTICS OF THE CLONAL PLANT RANUNCULUS REPTANS. *Evolution; International Journal of Organic Evolution*, **2000**, 54, 1947	3.8	55
270	Consequences of species loss for ecosystem functioning: meta-analyses of data from biodiversity experiments **2009**, 14-29		55
269	Foliar and soil δ15N values reveal increased nitrogen partitioning among species in diverse grassland communities. *Plant, Cell and Environment*, **2011**, 34, 895-908	8.4	54
268	The value of biodiversity experiments. *Basic and Applied Ecology*, **2004**, 5, 535-542	3.2	54
267	Plant diversity maintains long-term ecosystem productivity under frequent drought by increasing short-term variation. *Ecology*, **2017**, 98, 2952-2961	4.6	53
266	Experimental demography of the old-field perennial Solidago altissima: the dynamics of the shoot population. *Journal of Ecology*, **1999**, 87, 17-27	6	53
265	Global leaf nitrogen and phosphorus stoichiometry and their scaling exponent. *National Science Review*, **2018**, 5, 728-739	10.8	52
264	Relationship between population size, allozyme variation, and plant performance in the narrow endemic Cochlearia bavarica. *Conservation Genetics*, **2002**, 3, 131-144	2.6	52
263	Demographic stochasticity in population fragments of the declining distylous perennial Primula veris (Primulaceae). *Basic and Applied Ecology*, **2003**, 4, 197-206	3.2	52
262	Species-area relationships and nestedness of four taxonomic groups in fragmented wetlands. *Basic and Applied Ecology*, **2003**, 4, 385-394	3.2	52
261	Transgenic Pm3b wheat lines show resistance to powdery mildew in the field. *Plant Biotechnology Journal*, **2011**, 9, 897-910	11.6	51
260	Effect of plant species loss on aphid-parasitoid communities. *Journal of Animal Ecology*, **2010**, 79, 709-20	4.7	51
259	Density may alter diversity–productivity relationships in experimental plant communities. *Basic and Applied Ecology*, **2005**, 6, 505-517	3.2	51
258	The Functioning of European Grassland Ecosystems: Potential Benefits of Biodiversity to Agriculture. *Outlook on Agriculture*, **2001**, 30, 179-185	2.9	51

257	The influence of management regime and altitude on the population structure of Succisapratensis: implications for vegetation monitoring. *Journal of Applied Ecology*, **2001**, 38, 689-698	5.8	50
256	Plastic Relationships between Reproductive and Vegetative Mass in Solidago altissima. *Evolution; International Journal of Organic Evolution*, **1993**, 47, 61	3.8	50
255	Can niche plasticity promote biodiversity-productivity relationships through increased complementarity?. *Ecology*, **2017**, 98, 1104-1116	4.6	49
254	BUGS in the analysis of biodiversity experiments: species richness and composition are of similar importance for grassland productivity. *PLoS ONE*, **2011**, 6, e17434	3.7	49
253	Plasticity of functional traits of forb species in response to biodiversity. *Perspectives in Plant Ecology, Evolution and Systematics*, **2015**, 17, 66-77	3	48
252	Effects of habitat fragmentation on population structure and fitness components of the wetland specialist Swertia perennis L. (Gentianaceae). *Basic and Applied Ecology*, **2002**, 3, 101-114	3.2	48
251	Dietary shift and lowered biomass gain of a generalist herbivore in species-poor experimental plant communities. *Oecologia*, **2003**, 135, 234-41	2.9	48
250	Experimental invasion by legumes reveals non-random assembly rules in grassland communities. *Journal of Ecology*, **2005**, 93, 1062-1070	6	48
249	Maternal and direct effects of elevated CO on seed provisioning, germination and seedling growth in Bromus erectus. *Oecologia*, **2000**, 123, 475-480	2.9	48
248	Interaction between the endophytic fungus Epichloe bromicola and the grass bromus erectus: effects of endophyte infection, fungal concentration and environment on grass growth and flowering. *Molecular Ecology*, **1999**, 8, 1827-35	5.7	48
247	Taxonomic identity, phylogeny, climate and soil fertility as drivers of leaf traits across Chinese grassland biomes. *Journal of Plant Research*, **2010**, 123, 551-61	2.6	47
246	Effects of nitrogen deposition on soil microbial communities in temperate and subtropical forests in China. *Science of the Total Environment*, **2017**, 607-608, 1367-1375	10.2	46
245	Density and habitat use of lions and spotted hyenas in northern Botswana and the influence of survey and ecological variables on call-in survey estimation. *Biodiversity and Conservation*, **2013**, 22, 2937-2956	2.4	45
244	Comparison of the effects of artificial and natural barriers on large African carnivores: implications for interspecific relationships and connectivity. *Journal of Animal Ecology*, **2013**, 82, 707-15	4.7	45
243	Positive effects of tree species richness on fine-root production in a subtropical forest in SE-China. *Journal of Plant Ecology*, **2017**, 10, 146-157	1.7	45
242	Legume species differ in the responses of their functional traits to plant diversity. *Oecologia*, **2011**, 165, 437-52	2.9	45
241	EXPERIMENTAL LIFE-HISTORY EVOLUTION: SELECTION ON THE ALLOCATION TO SEXUAL REPRODUCTION AND ITS PLASTICITY IN A CLONAL PLANT. *Evolution; International Journal of Organic Evolution*, **2002**, 56, 2168	3.8	45
240	Environmental heterogeneity increases complementarity in experimental grassland communities. *Basic and Applied Ecology*, **2008**, 9, 467-474	3.2	44

239	Plant diversity and generation of ecosystem services at the landscape scale: expert knowledge assessment. *Journal of Applied Ecology*, **2012**, 49, 929-940	5.8	43
238	Plasticity in Plant Size and Architecture in Rhizome-Derived vs. Seed-Derived Solidago and Aster. *Ecology*, **1990**, 71, 523-535	4.6	43
237	Options of partners improve carbon for phosphorus trade in the arbuscular mycorrhizal mutualism. *Ecology Letters*, **2016**, 19, 648-56	10	43
236	Experimental demography of rhizome populations of establishing clones of Solidago altissima. *Journal of Ecology*, **1999**, 87, 42-54	6	42
235	A multitrophic perspective on biodiversity-ecosystem functioning research. *Advances in Ecological Research*, **2019**, 61, 1-54	4.6	41
234	Attitudes toward forest diversity and forest ecosystem services□ cross-cultural comparison between China and Switzerland. *Journal of Plant Ecology*, **2014**, 7, 1-9	1.7	41
233	Adaptation and extinction in experimentally fragmented landscapes. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 19120-5	11.5	41
232	Field surveys of capercaillie (Tetrao urogallus) in the Swiss Alps underestimated local abundance of the species as revealed by genetic analyses of non-invasive samples. *Conservation Genetics*, **2010**, 11, 33-44	2.6	41
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