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Species and species diversity in relation with restoration and persistence of degraded ecosystem functions (PMID:11813418)

[Zhao P, Peng S](#)

South China Institute of Botany, Chinese Academy of Sciences, Guangzhou 510650.

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Type: Journal Article, English Abstract (lang: chi)

Abstract

Highlight Terms

Species(1)

Species diversity is an important character of an ecosystem, and keeps it to function. Species diversity and their communities provide human with essential ecosystem services, including nutrient cycling, biological productivity, trophic function, etc. Species diversity is tightly related with the ecosystem's ability to withstand stress and disturbance. Increasing biodiversity could enhance system stability. Compared to individual species and species number, functional group and functional diversity impose larger impact on system functioning, and are good approaches used to measure stability and to predict community change. Several forms with which the species act on ecosystem functioning were proposed and discussed in this paper. Understanding the relationship between species diversity and ecosystem function could guide the practice of restoring degraded ecosystem and maintaining its functions. Particularly, it provides basic ecological theories for "species assemblage" at initial stage of restoration.

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[Forest restoration, biodiversity and ecosystem functioning.](#)

(PMID:22115365)

Aerts R, Honnay O

BMC ecology [2011 Nov 24;11:29]



[Ecological consequences of genetic diversity.](#)

(PMID:18400018)

Hughes AR, Inouye BD, Johnson MT, Underwood N, Vellend M

Ecology letters [2008 Jun;11(6):609-23]



[The influence of biotic interactions on soil biodiversity.](#)

(PMID:16796577)

Wardle DA

Ecology letters [2006 Jul;9(7):870-86]



[Comparative ecology of North Atlantic shores: do differences in players matter for process?](#)

(PMID:19097481)

Jenkins SR, Moore P, Burrows MT, Garbary DJ, Hawkins SJ, Ingólfsson A, Sebens KP, Snelgrove PV, Wethey DS, Woodin SA

Ecology [2008 Nov;89(11 Suppl):S3-23]



[Community responses to contaminants: using basic ecological principles to predict ecotoxicological effects.](#)

(PMID:19358627)

Clements WH, Rohr JR

Environmental toxicology and chemistry / SETAC [2009 Sep;28(9):1789-800]



[The need for the incorporation of phylogeny in the measurement of biological diversity, with special reference to ecosystem functioning research.](#)

(PMID:19153993)

King I

BioEssays : news and reviews in molecular, cellular and developmental biology [2009 Jan;31(1):107-16]



[Ecosystem responses to community disassembly.](#)

(PMID:19432654)

Zavaleta E, Pasari J, Moore J, Hernández D, Suttle KB, Wilmers CC

Annals of the New York Academy of Sciences [2009 Apr;1162:311-33]



[The marine food chain in relation to biodiversity.](#)

(PMID:12805852)

Price AR

TheScientificWorldJournal [2001 Oct 19;1:579-87]



[\[The ecological determinacy of the intraspecies diversity of pathogenic bacterial.](#)

(PMID:10876910)

Bukharin OV, Gritsenko VA

Zhurnal mikrobiologii, epidemiologii, i immunobiologii [2000 Jan-Feb;(1):103-6]



[Biological diversity. Species: would any of them be missed?](#)

(PMID:7922364)

Lockwood JL, Pimm SL

Current biology : CB [1994 May 1;4(5):455-7]

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Wang ZH

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[\[Trophic interactions and the relationship between species diversity and ecosystem stability\].](#)

(PMID:16224699)

Thébault E, Loreau M

The American naturalist [2005 Oct;166(4):E95-114]



[\[Ecological restoration and reconstruction of degraded lakeside zone ecosystem\].](#)

(PMID:15852939)

Yan C, Jin X, Zhao J, Ye C, Wang Z

Ying yong sheng tai xue bao = The journal of applied ecology / Zhongguo sheng tai xue xue hui, Zhongguo ke xue yuan Shenyang ying yong sheng tai yan jiu suo zhu ban [2005 Feb;16(2):360-4]



[\[Population and community resilience in multitrophic communities\].](#)

(PMID:16676543)

Steiner CF, Long ZT, Krumins JA, Morin PJ

Ecology [2006 Apr;87(4):996-1007]



[\[Diversity-dependent production can decrease the stability of ecosystem functioning\].](#)

(PMID:11882897)

Pfisterer AB, Schmid B

Nature [2002 Mar 7;416(6876):84-6]



[\[Genetic diversity enhances the resistance of a seagrass ecosystem to disturbance\].](#)

(PMID:15184681)

Hughes AR, Stachowicz JJ

Proceedings of the National Academy of Sciences of the United States of America [2004 Jun 15;101(24):8998-9002]



[\[Community maturity, species saturation and the variant diversity-productivity relationships in grasslands\].](#)

(PMID:17118002)

Guo Q, Shaffer T, Buhl T

Ecology letters [2006 Dec;9(12):1284-92]



[\[Ecosystem recovery after climatic extremes enhanced by genotypic diversity\].](#)

(PMID:15710890)

Reusch TB, Ehlers A, Hämmerli A, Worm B

Proceedings of the National Academy of Sciences of the United States of America [2005 Feb 22;102(8):2826-31]



[\[Maintaining mechanism of species diversity of land plant communities\].](#)

(PMID:15943380)

Shang W, Wu G, Fu X, Liu Y

Ying yong sheng tai xue bao = The journal of applied ecology / Zhongguo sheng tai xue xue hui, Zhongguo ke xue yuan Shenyang ying yong sheng tai yan jiu suo zhu ban [2005 Mar;16(3):573-8]



[Diversity and dispersal interactively affect predictability of ecosystem function.](#)

(PMID:16810254)

France KE, Duffy JE

Nature [2006 Jun 29;441(7097):1139-43]

[Consumer versus resource control of species diversity and ecosystem functioning.](#)

(PMID:12075351)

Worm B, Lotze HK, Hillebrand H, Sommer U

Nature [2002 Jun 20;417(6891):848-51]

[Biodiversity and ecosystem stability in a decade-long grassland experiment.](#)

(PMID:16738658)

Tilman D, Reich PB, Knops JM

Nature [2006 Jun 1;441(7093):629-32]

[Interaction diversity within quantified insect food webs in restored and adjacent intensively managed meadows.](#)

(PMID:17714280)

Albrecht M, Duelli P, Schmid B, Müller CB

The Journal of animal ecology [2007 Sep;76(5):1015-25]

[A direct comparison of the consequences of plant genotypic and species diversity on communities and ecosystem function.](#)

(PMID:21661554)

Cook-Patton SC, McArt SH, Parachnowitsch AL, Thaler JS, Agrawal AA

Ecology [2011 Apr;92(4):915-23]

[Functional diversity governs ecosystem response to nutrient enrichment.](#)

(PMID:10830961)

Hulot FD, Lacroix G, Lescher-Moutoué F, Loreau M

Nature [2000 May 18;405(6784):340-4]

[The relation between productivity and species diversity in temperate-Arctic marine ecosystems.](#)

(PMID:19097485)

Witman JD, Cusson M, Archambault P, Pershing AJ, Mieszkowska N

Ecology [2008 Nov;89(11 Suppl):S66-80]

[Functional structure of biological communities predicts ecosystem multifunctionality.](#)

(PMID:21423747)

Mouillot D, Villéger S, Scherer-Lorenzen M, Mason NW

PloS one [2011 Mar 10;6(3):e17476]

[Negative selection effects suppress relationships between bacterial diversity and ecosystem functioning.](#)

(PMID:17536392)

Jiang L

Ecology [2007 May;88(5):1075-85]

[Marine biodiversity and ecosystem services: an elusive link.](#)

(PMID:10969166)

Duarte CM

Journal of experimental marine biology and ecology [2000 Jul 30;250(1-2):117-131]

[Nutrient effects on the genetic and functional diversity of aquatic bacterial communities.](#)

(PMID:18811649)

Leflaive J, Danger M, Lacroix G, Lyautey E, Oumarou C, Ten-Hage L

FEMS microbiology ecology [2008 Nov;66(2):379-90]



[Diversity promotes temporal stability across levels of ecosystem organization in experimental grasslands.](#)

(PMID:20967213)

Proulx R, Wirth C, Voigt W, Weigelt A, Roscher C, Attinger S, Baade J, Barnard RL, Buchmann N, Buscot F, Eisenhauer N, Fischer M, Gleixner G, Halle S, Hildebrandt A, Kowalski E, Kuu A, Lange M, Milcu A, Niklaus PA, Oelmann Y, Rosenkranz S, Sabais A, Scherber C, Scherer-Lorenzen M, Scheu S, Schulze ED, Schumacher J, Schwichtenberg G, Soussana JF, Temperton VM, Weisser WW, Wilcke W, Schmid B

PloS one [2010 Oct 13;5(10):e13382]



[Phenotypic diversity and stability of ecosystem processes.](#)

(PMID:10438667)

Loreau M, Behera N

Theoretical population biology [1999 Aug;56(1):29-47]



[Maintenance of soil functioning following erosion of microbial diversity.](#)

(PMID:17107557)

Wertz S, Degrange V, Prosser JI, Poly F, Commeaux C, Freitag T, Guillaumaud N, Roux XL
Environmental microbiology [2006 Dec;8(12):2162-9]



[Interactive effects of plant species diversity and elevated CO2 on soil biota and nutrient cycling.](#)

(PMID:18229849)

Niklaus PA, Alpei J, Kampichler C, Kandeler E, Körner C, Tscherko D, Wohlfender M
Ecology [2007 Dec;88(12):3153-63]



[Plant diversity and ecosystem productivity: theoretical considerations.](#)

(PMID:11038606)

Tilman D, Lehman CL, Thomson KT

Proceedings of the National Academy of Sciences of the United States of America [1997 Mar 4;94(5):1857-61]



[Natural enemy diversity reduces temporal variability in wasp but not bee parasitism.](#)

(PMID:19924447)

Veddeler D, Tylianakis J, Tscharnke T, Klein AM
Oecologia [2010 Mar;162(3):755-62]



[Lacandon Maya ecosystem management: sustainable design for subsistence and environmental restoration.](#)

(PMID:19323187)

Diemont SA, Martin JF

Ecological applications : a publication of the Ecological Society of America [2009 Jan;19(1):254-66]



[Predator diversity and trophic interactions.](#)

(PMID:18027743)

Schmitz OJ

Ecology [2007 Oct;88(10):2415-26]



[A trait-based approach to species' roles in stream ecosystems: climate change, community structure, and material cycling.](#)

(PMID:18795337)

Spooner DE, Vaughn CC

Oecologia [2008 Nov;158(2):307-17]



[Ecosystem functioning in stream assemblages from different regions: contrasting responses to variation in detritivore richness, evenness and density.](#)

(PMID:18298521)

McKie BG, Woodward G, Hladyz S, Nistorescu M, Preda E, Popescu C, Giller PS, Malmqvist B
The Journal of animal ecology [2008 May;77(3):495-504]



[Ecosystem engineering affects ecosystem functioning in high-Andean landscapes.](#)

(PMID:18193287)

Badano EI, Marquet PA

Oecologia [2008 Apr;155(4):821-9]



[Biodiversity and agro-ecology in field margins.](#)

(PMID:16363358)

De Cauwer B, Reheul D, Nijls I, Milbau A

Communications in agricultural and applied biological sciences [2005;70(1):17-49]



[Methodologies for conservation assessments of the genetic biodiversity of aquatic macro-organisms.](#)

(PMID:12530175)

Bert TM, Seyoum S, Tringali MD, McMillen-Jackson A

Brazilian journal of biology = Revista brasleira de biologia [2002 Aug;62(3):387-408]



[Towards a unifying approach to diversity measures: bridging the gap between the Shannon entropy and Rao's quadratic index.](#)

(PMID:16904144)

Ricotta C, Szeidl L

Theoretical population biology [2006 Nov;70(3):237-43]



[Multiple functions increase the importance of biodiversity for overall ecosystem functioning.](#)

(PMID:18543617)

Gamfeldt L, Hillebrand H, Jonsson PR

Ecology [2008 May;89(5):1223-31]



[Functional regularity: a neglected aspect of functional diversity.](#)

(PMID:15655690)

Mouillot D, Mason WH, Dumay O, Wilson JB

Oecologia [2005 Jan;142(3):353-9]



[Temporal turnover and the maintenance of diversity in ecological assemblages.](#)

(PMID:20980310)

Magurran AE, Henderson PA

Philosophical transactions of the Royal Society of London. Series B, Biological sciences [2010 Nov 27;365(1558):3611-20]



[Effects of plant diversity, community composition and environmental parameters on productivity in montane European grasslands.](#)

(PMID:15538634)

Kahmen A, Perner J, Audorff V, Weisser W, Buchmann N

Oecologia [2005 Feb;142(4):606-15]



[Two-phase functional redundancy in plant communities along a grazing gradient in Mongolian rangelands.](#)

(PMID:19769137)

Sasaki T, Okubo S, Okayasu T, Jamsran U, Ohkuro T, Takeuchi K

Ecology [2009 Sep;90(9):2598-608]



[Species' traits predict the effects of disturbance and productivity on diversity.](#)

(PMID:18201199)

Haddad NM, Holyoak M, Mata TM, Davies KF, Melbourne BA, Preston K

Ecology letters [2008 Apr;11(4):348-56]



[Maximum species richness at intermediate frequencies of disturbance: consistency among levels of productivity.](#)

(PMID:17536700)

Svensson JR, Lindegarth M, Siccha M, Lenz M, Molis M, Wahl M, Pavia H
Ecology [2007 Apr;88(4):830-8]



[Initial community evenness favours functionality under selective stress.](#)

(PMID:19270679)

Wittebolle L, Marzorati M, Clement L, Balloi A, Daffonchio D, Heylen K, De Vos P, Verstraete W, Boon N
Nature [2009 Apr 2;458(7238):623-6]



[Phenotypic diversity and ecosystem functioning in changing environments: a theoretical framework.](#)

(PMID:11535803)

Norberg J, Swaney DP, Dushoff J, Lin J, Casagrandi R, Levin SA
Proceedings of the National Academy of Sciences of the United States of America [2001 Sep 25;98(20):11376-81]



[Diversity-interaction modeling: estimating contributions of species identities and interactions to ecosystem function.](#)

(PMID:19739365)

Kirwan L, Connolly J, Finn JA, Brophy C, Lüscher A, Nyfeler D, Sebastia MT
Ecology [2009 Aug;90(8):2032-8]



[A nearly neutral model of biodiversity.](#)

(PMID:18376566)

Zhou SR, Zhang DY
Ecology [2008 Jan;89(1):248-58]



[Biodiversity as both a cause and consequence of resource availability: a study of reciprocal causality in a predator-prey system.](#)

(PMID:16638002)

Cardinale BJ, Weis JJ, Forbes AE, Tilmon KJ, Ives AR
The Journal of animal ecology [2006 Mar;75(2):497-505]



[Effects of urban development on ant communities: implications for ecosystem services and management.](#)

(PMID:18778268)

Sanford MP, Manley PN, Murphy DD
Conservation biology : the journal of the Society for Conservation Biology [2009 Feb;23(1):131-41]



[Species diversity enhances ecosystem functioning through interspecific facilitation.](#)

(PMID:11807553)

Cardinale BJ, Palmer MA, Collins SL
Nature [2002 Jan 24;415(6870):426-9]



[Do biotic interactions shape both sides of the humped-back model of species richness in plant communities?](#)

(PMID:16796565)

Michalet R, Brooker RW, Cavieres LA, Kikvidze Z, Lortie CJ, Pugnaire FI, Valiente-Banuet A, Callaway RM
Ecology letters [2006 Jul;9(7):767-73]



[Human impacts on regional avian diversity and abundance.](#)

(PMID:18294300)

Lepczyk CA, Flather CH, Radeloff VC, Pidgeon AM, Hammer RB, Liu J
Conservation biology : the journal of the Society for Conservation Biology [2008 Apr;22(2):405-16]



[The interaction between nutrient availability and disturbance frequency on the diversity of benthic marine communities on the north-east coast of England.](#)

(PMID:17976183)

Sugden H, Lenz M, Molis M, Wahl M, Thomason JC
The Journal of animal ecology [2008 Jan;77(1):24-31]



[The consequences of genetic diversity in competitive communities.](#)

(PMID:16637355)

Vellend M

Ecology [2006 Feb;87(2):304-11]



[Population density of North American elk: effects on plant diversity.](#)

(PMID:19484268)

Stewart KM, Bowyer RT, Kie JG, Dick BL, Ruess RW

Oecologia [2009 Aug;161(2):303-12]



[Trophically unique species are vulnerable to cascading extinction.](#)

(PMID:18419567)

Petchey OL, Eklöf A, Borrvall C, Ebenman B

The American naturalist [2008 May;171(5):568-79]



[The interactive effects of fire and diversity on short-term responses of ecosystem processes in experimental mediterranean grasslands.](#)

(PMID:16514480)

Dimitrakopoulos PG, Siamantziouras AS, Galanidis A, Mprezetou I, Troumbis AY

Environmental management [2006 Jun;37(6):826-39]



[Ecosystem impairment evaluation on biodiversity and functional diversity for contaminated soil assessment.](#)

(PMID:20050029)

Semenzin E, Critto A, Marcomini A

Integrated environmental assessment and management [2009 Jul;5(3):399-413]



[Immigration and zooplankton community responses to nutrient enrichment: a mesocosm experiment.](#)

(PMID:16896775)

Forrest J, Arnott SE

Oecologia [2006 Nov;150(1):119-31]



[Decline of soil microbial diversity does not influence the resistance and resilience of key soil microbial functional groups following a model disturbance.](#)

(PMID:17686019)

Wertz S, Degrange V, Prosser JI, Poly F, Commeaux C, Guillaumaud N, Le Roux X

Environmental microbiology [2007 Sep;9(9):2211-9]



[Biodiversity mediates productivity through different mechanisms at adjacent trophic levels.](#)

(PMID:18051651)

Long ZT, Bruno JF, Duffy JE

Ecology [2007 Nov;88(11):2821-9]



[Environmental effect of vegetation restoration on degraded ecosystem in low subtropical China.](#)

(PMID:12974314)

Peng SL, Yang LC, Lu HF

Journal of environmental sciences (China) [2003 Jul;15(4):514-9]



[The functional role of biodiversity in ecosystems: incorporating trophic complexity.](#)

(PMID:17498151)

Duffy JE, Cardinale BJ, France KE, McIntyre PB, Thébault E, Loreau M

Ecology letters [2007 Jun;10(6):522-38]

[A semantic taxonomy for diversity measures.](#)

(PMID:17486413)

Ricotta C

Acta biotheoretica [2007;55(1):23-33]

[Response diversity determines the resilience of ecosystems to environmental change.](#)

(PMID:23217173)

Mori AS, Furukawa T, Sasaki T

Biological reviews of the Cambridge Philosophical Society [2012 Dec 6;]

[Compensation and the stability of restored grassland communities.](#)

(PMID:17974328)

Seabloom EW

Ecological applications : a publication of the Ecological Society of America [2007 Oct;17(7):1876-85]

[Competition-colonization trade-offs and disturbance effects at multiple scales.](#)

(PMID:17536699)

Cadotte MW

Ecology [2007 Apr;88(4):823-9]

[Including intraspecific variability in functional diversity.](#)

(PMID:19294915)

Cianciaruso MV, Batalha MA, Gaston KJ, Petchey OL

Ecology [2009 Jan;90(1):81-9]

[The invasibility of marine algal assemblages: role of functional diversity and identity.](#)

(PMID:17168029)

Arenas F, Sánchez I, Hawkins SJ, Jenkins SR

Ecology [2006 Nov;87(11):2851-61]

[\[Dynamics of plant community species diversity in the process of ecological rehabilitation in north Shaanxi loess area\].](#)

(PMID:19459383)

Qin W, Zhu QK, Zhang YQ, Zhao LL

Ying yong sheng tai xue bao = The journal of applied ecology / Zhongguo sheng tai xue xue hui, Zhongguo ke xue yuan Shenyang ying yong sheng tai yan jiu suo zhu ban [2009 Feb;20(2):403-9]

[New multidimensional functional diversity indices for a multifaceted framework in functional ecology.](#)

(PMID:18724739)

Villéger S, Mason NW, Mouillot D

Ecology [2008 Aug;89(8):2290-301]

[Does niche overlap control relative abundance in French lacustrine fish communities? A new method incorporating functional traits.](#)

(PMID:18397248)

Mason NW, Lanoiselée C, Mouillot D, Wilson JB, Argillier C

The Journal of animal ecology [2008 Jul;77(4):661-9]

[Scale-dependent relationships between the spatial distribution of a limiting resource and plant species diversity in an African grassland ecosystem.](#)

(PMID:15007724)

Anderson TM, McNaughton SJ, Ritchie ME

Oecologia [2004 Apr;139(2):277-87]



[Diversity-stability relationships in community ecology: re-examination of the portfolio effect.](#)

(PMID:12408946)

Lhomme JP, Winkel T

Theoretical population biology [2002 Nov;62(3):271-9]



[Landscape constraints on functional diversity of birds and insects in tropical agroecosystems.](#)

(PMID:18481519)

Tscharntke T, Sekercioglu CH, Dietsch TV, Sodhi NS, Hoehn P, Tylianakis JM

Ecology [2008 Apr;89(4):944-51]



[Diversity-invasibility across an experimental disturbance gradient in Appalachian Forests.](#)

(PMID:18376560)

Belote RT, Jones RH, Hood SM, Wender BW

Ecology [2008 Jan;89(1):183-92]



[Causes and consequences of biological diversity in soil.](#)

(PMID:16351885)

Bardgett RD

Zoology (Jena, Germany) [2002;105(4):367-74]



[Low functional diversity and no redundancy in British avian assemblages.](#)

(PMID:17714276)

Petchey OL, Evans KL, Fishburn IS, Gaston KJ

The Journal of animal ecology [2007 Sep;76(5):977-85]



[Mutual feedbacks maintain both genetic and species diversity in a plant community.](#)

(PMID:17872447)

Lankau RA, Strauss SY

Science (New York, N.Y.) [2007 Sep 14;317(5844):1561-3]



[Productivity-biodiversity relationships depend on the history of community assembly.](#)

(PMID:12879069)

Fukami T, Morin PJ

Nature [2003 Jul 24;424(6947):423-6]



[Plant genotypic diversity predicts community structure and governs an ecosystem process.](#)

(PMID:16917062)

Crutsinger GM, Collins MD, Fordyce JA, Gompert Z, Nice CC, Sanders NJ

Science (New York, N.Y.) [2006 Aug 18;313(5789):966-8]



[Host-plant genotypic diversity mediates the distribution of an ecosystem engineer.](#)

(PMID:17824442)

Crawford KM, Crutsinger GM, Sanders NJ

Ecology [2007 Aug;88(8):2114-20]



[Understanding ecosystem dynamics for conservation of biota.](#)

(PMID:16903044)

Sinclair AR, Byrom AE

The Journal of animal ecology [2006 Jan;75(1):64-79]



[The stabilizing effect of intraspecific genetic variation on population dynamics in novel and ancestral habitats.](#)

(PMID:19519220)

Agashe D

The American naturalist [2009 Aug;174(2):255-67]



[Predator diversity and identity drive interaction strength and trophic cascades in a food web.](#)

(PMID:18376555)

Otto SB, Berlow EL, Rank NE, Smiley J, Brose U

Ecology [2008 Jan;89(1):134-44]



[Biodiversity in microbial communities: system scale patterns and mechanisms.](#)

(PMID:19298265)

Parnell JJ, Crowl TA, Weimer BC, Pfrender ME

Molecular ecology [2009 Apr;18(7):1455-62]



[Conventional functional classification schemes underestimate the relationship with ecosystem functioning.](#)

(PMID:16958875)

Wright JP, Naeem S, Hector A, Lehman C, Reich PB, Schmid B, Tilman D

Ecology letters [2006 Feb;9(2):111-20]



[Biodiversity maintenance mechanisms differ between native and novel exotic-dominated communities.](#)

(PMID:19379137)

Wilsey BJ, Teaschner TB, Daneshgar PP, Isbell FI, Polley HW

Ecology letters [2009 May;12(5):432-42]



[Sustaining Ecosystem Services in Human-Dominated Watersheds: Biohydrology and Ecosystem Processes in the South Platte River Basin.](#)

(PMID:10341061)

Strange EM, Fausch KD, Covich AP

Environmental management [1999 Jul;24(1):39-54]



[Phylogenetic diversity and the functioning of ecosystems.](#)

(PMID:22583836)

Srivastava DS, Cadotte MW, MacDonald AA, Marushia RG, Mirotchnick N

Ecology letters [2012 Jul;15(7):637-48]



[Soil nematode diversity: species coexistence and ecosystem function.](#)

(PMID:19274206)

Ettema CH

Journal of nematology [1998 Jun;30(2):159-69]



[Genetic diversity enhances restoration success by augmenting ecosystem services.](#)

(PMID:22761681)

Reynolds LK, McGlathery KJ, Waycott M

PloS one [2012;7(6):e38397]



[Phylogenetic constraints on ecosystem functioning.](#)

(PMID:23047675)

Gravel D, Bell T, Barbera C, Combe M, Pommier T, Mouquet N

Nature communications [2012;3:1117]



[Genetic diversity and ecosystem functioning in the face of multiple stressors.](#)

(PMID:23028735)

Roger F, Godhe A, Gamfeldt L

PloS one [2012;7(9):e45007]



[Disturbance-diversity models: what do they really predict and how are they tested?](#)

(PMID:22298854)

Svensson JR, Lindegarth M, Jonsson PR, Pavia H

Proceedings. Biological sciences / The Royal Society [2012 Jun 7;279(1736):2163-70]

[Diversity peaks at intermediate productivity in a laboratory microcosm.](#)

(PMID:10952310)

Kassen R, Buckling A, Bell G, Rainey PB

Nature [2000 Aug 3;406(6795):508-12]

[Biological Diversity Conservation: A Public Policy Perspective](#)

(PMID:8895400)

PIPKIN J

Environmental management [1996 Nov;20(6):793-7]

[A Critical Review of Assumptions About the Prairie Dog as a Keystone Species.](#)

(PMID:10384028)

Kotliar NB, Baker BW, Whicker AD, Plumb G

Environmental management [1999 Sep;24(2):177-192]

[Importance of diversity. Reconciling natural selection and noncompetitive processes.](#)

(PMID:10818557)

Johnson NL

Annals of the New York Academy of Sciences [2000;901:54-66]

[A partial ordering approach for functional diversity.](#)

(PMID:21510965)

Ricotta C, Szeidl L, Moretti M, Blasi C

Theoretical population biology [2011 Sep;80(2):114-20]

[Biodiversity and the productivity and stability of ecosystems.](#)

(PMID:21237882)

Johnson KH, Vogt KA, Clark HJ, Schmitz OJ, Vogt DJ

Trends in ecology & evolution [1996 Sep;11(9):372-7]

[Understanding and planning ecological restoration of plant-pollinator networks.](#)

(PMID:22251948)

Devoto M, Bailey S, Craze P, Memmott J

Ecology letters [2012 Jan 18;]

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