

Streitberger, M. & T. Fartmann (2017): Bodenstörende Ökosystem-Ingenieure im mitteleuropäischen Grasland und ihre Bedeutung für die Biodiversität. Eine Analyse am Beispiel der Gelben Wiesenameise und des Europäischen Maulwurfs. *Naturschutz und Landschaftsplanung* 49 (8): 252–259.

## Literatur

- ATKINSON, R. (2013): Moles. Whittet Books, Stansted.
- ATKINSON, R., MACDONALD, D.W., JOHNSON, P.J. (1994): The status of the European mole *Talpa europaea* L. as an agricultural pest and its management. *Mamm. Rev.* 24: 73–90.
- BARTON, B.J., KIRSCHBAUM, C.D., BACH, C.E. (2009): The impact of ant mounds on sedge meadows and shrub carr vegetation in a prairie fen. *Nat. Areas J.* 29: 293–300.
- BEGON, M., HOWARTH, R.W. & TOWNSEND, C.R. (2017): Ökologie, dritte Auflage. Springer Spektrum, Berlin Heidelberg.
- BLOMQVIST, M.M., OLFF, H., BLAAUW, M.B., BONGERS, T., VAN DER PUTTEN, W.-H. (2000): Interactions between above- and belowground biota: importance for small-scale vegetation mosaics in a grassland ecosystem. *Oikos* 90: 582–598.
- BULLOCK, J.M., HILL, B.C., DALE, M.P., SILVERTOWN, J. (1994): An experimental study of the effects of sheep grazing on vegetation change in a species-poor grassland and the role of seedlings recruitment into gaps. *J. Appl. Ecol.* 31: 493–507.
- CANALS, R.-M., SEBASTIÀ, M.-T. (2000): Soil nutrient fluxes and vegetation changes on molehills. *J. Veg. Sci.* 11: 23–30.
- CEULEMANS, T., MERCKX, R., HENS, M., HONNAY, O. (2013): Plant species loss from European semi-natural grasslands following nutrient enrichment – is it nitrogen or is it phosphorus? *Glob. Ecol. Biogeogr.* 22: 73–82.
- COUSINS, S.A.O., ERIKSSON, O. (2008): After the hotspots are gone. Land use history and grassland plant species diversity in a strongly transformed agricultural landscape. *Appl. Veg. Sci.* 11: 365–374.
- DAUBER, J., NIECHOJ, R., BALTRUSCHAT, H., WOLTERS, V. (2008): Soil engineering ants increase grass root arbuscular mycorrhizal colonization. *Biol. Fertil. Soils* 44: 791–796.
- DAUBER, J., ROMMELER, A., WOLTERS, V. (2006): The ant *Lasius flavus* alters the viable seed bank in pastures. *Eur. J. Soil Biol.* 42 (Supplement 1): S157–S163.
- DAVIDSON, A.D., DETLING, J.K., BROWN, J.H. (2012): Ecological roles and conservation challenges of social, burrowing, herbivorous mammals in the world's grasslands. *Front. Ecol. Environ.* 10: 477–486.
- DAVIDSON, A.D., LIGHTFOOT, D.C. (2007): Interactive effects of keystone rodents on the structure of desert grassland arthropod communities. *Ecography* 30: 515–525.
- DAVIES, A.B., ROBERTSON, M.P., LEVICK, S.R., ASNER, G.P., VAN RENSBURG, B.J., PARR, C.L. (2014): Variable effects of termite mounds on African savanna grass communities across a rainfall gradient. *J. Veg. Sci.* 25: 1405–1416.
- DEAN, W.R.J., MILTON, S.J., KLOTZ, S. (1997): The role of ant nest-mounds in maintaining small-scale patchiness in dry grasslands in Central Germany. *Biodivers. Conserv.* 6: 1293–1307.
- DIACON-BOLLI, J., DALANG, T., HOLDEREGGER, R., BÜRGI, M. (2012): Heterogeneity fosters biodiversity: Linking history and ecology of dry calcareous grasslands. *Basic Appl. Ecol.* 13: 641–653.
- DLUSSKY, G.M. (1981): Nester von *Lasius flavus*. *Pedobiologia* 21: 81–99.
- DOSTÁL, P. (2005): Effect of three mound-building ant species on the formation of soil seed bank in mountain grassland. *Flora* 200: 148–158.
- DOSTÁL, P., BŘEZNOVÁ, M., KOZLÍČKOVÁ, V., HERBEN, T., KOVÁŘ, P. (2005): Ant-induced soil modification and its effect on plant below-ground biomass. *Pedobiologia* 49: 127–137.
- DUFRENE, M., LEGENDRE, P. (1997): Species assemblages and indicator species: the need for a flexible asymmetrical approach. *Ecol. Monogr.* 67: 345–366.

- DUPRÉ, C., STEVENS, C.J., RANKE, T., BLEEKERS, A., PEPLER-LISBACH, C., GOWING, D.G., DISE, N.B., DORLAND, E., BOBBINK, R., DIEKMANN, M. (2010): Changes in species richness and composition in European acidic grasslands over the past 70 years: the contribution of cumulative atmospheric nitrogen deposition. *Glob. Chang. Biol.* 16: 344–357.
- EBERT, G., RENNWALD, E. (1991): Die Schmetterlinge Baden-Württembergs. Bd. 2: Tagfalter II. Eugen Ulmer, Stuttgart.
- EDWARDS, G.R., CRAWLEY, M.J., HEARD, M.S. (1999): Factors influencing molehill distribution in grassland: implications for controlling the damage caused by moles. *J. Appl. Ecol.* 36: 434–442.
- EWACHA, M.V.A., KAAPEHI, C., WATERMAN, J.M., ROTH, J.D. (2016): Cape ground squirrels as ecosystem engineers: modifying habitat for plants, small mammals and beetles in Namib Desert grasslands. *Afr. J. Ecol.* 54: 68–75.
- FARTMANN, T. (2004): Die Schmetterlingsgemeinschaften der Halbtrockenrasen-Komplexe des Diemeltales. Biozönologie von Tagfaltern und Widderchen in einer alten Hudelandschaft. *Abh. Westfäl. Mus. Naturkunde* 66: 1–256.
- FARTMANN, T. (2006): Welche Rolle spielen Störungen für Tagfalter und Widderchen. – In: FARTMANN, T. & G. HERMANN (Hrsg.): Larvalökologie von Tagfaltern und Widderchen in Mitteleuropa. *Abh. Westfäl. Mus. Naturkunde* 68 (3/4): 259–270.
- FARTMANN, T. & G. HERMANN (2006): Larvalökologie von Tagfaltern und Widderchen in Mitteleuropa – von den Anfängen bis heute. In: FARTMANN, T. & G. HERMANN (Hrsg.): Larvalökologie von Tagfaltern und Widderchen in Mitteleuropa. *Abhandlungen aus dem Westfälischen Museum für Naturkunde* 68 (3/4): 11–57.
- FARTMANN, T., MATTES, H. (2003): Störungen als ökologischer Schlüsselfaktor beim Komma-Dickkopffalter (*Hesperia comma*). *Abh. Westfäl. Mus. Naturkunde* 65: 131–148.
- FAVREAU, J.M., DREW, C.A., HESS, G.R., RUBINO, M.J., KOCH, F.H., ESCHELBACH, K.A. (2006): Recommendations for assessing the effectiveness of surrogate species approaches. *Biodivers. Conserv.* 15: 3949–3969.
- FLEISCHER, K., STREITBERGER, M., FARTMANN, T. (2013): The importance of disturbance for the conservation of a low-competitive herb in mesotrophic grasslands. *Biologia* 68: 398–403.
- FOLGARAIT, P.J. (1998): Ant biodiversity and its relationship to ecosystem functioning: a review. *Biodivers. Conserv.* 7: 1221–1244.
- FREI, E.S., SCHEEPENS, J.F., STÖCKLIN, J. (2012): Dispersal and microsite limitation of a rare alpine plant. *Plant Ecol.* 213: 395–406.
- FUNMILAYO, O. (1977): Distribution and abundance of moles (*Talpa europaea* L.) in relation to physical habitat and food supply. *Oecologia* 30: 277–283.
- GÁLVEZ BRAVO, L., BELLIURE, J., REBOLLO, S. (2009): European rabbits as ecosystem engineers: warrens increase lizard density and diversity. *Biodivers. Conserv.* 18: 869–885.
- GARCÍA-BARROS, E., FARTMANN, T. (2009): Butterfly oviposition: sites, behaviour and modes. In: SETTELE, J., SHREEVE, T.G., KONVIČKA, M., VAN DYCK, H. (Hrsg.): *Ecology of butterflies in Europe*. Cambridge University Press, Cambridge, S. 29–42.
- GORMAN, M. L., STONE, R.D. (1990): *The natural history of moles*. Christopher Helm, London.
- HAGENAH, N., BENNETT, N.C. (2013): Mole rats act as ecosystem engineers within a biodiversity hotspot, the Cape Fynbos. *J. Zool.* 289: 19–26.
- HANSELL, M.H. (1993): The ecological impact of animal nests and burrows. *Funct. Ecol.* 7: 5–12.
- HELBING, F., CORNILS, N., STUHLREHER, G. & T. FARTMANN (2015): Populations of a shrub-feeding butterfly thrive after introduction of restorative shrub cutting on formerly abandoned calcareous grassland. *J. Insect Conserv.* 19: 457–464.
- HOOFTMAN, D.A.P., BULLOCK, J.M. (2012): Mapping to inform conservation: a case study of changes in semi-natural habitats and their connectivity over 70 years. *Biol. Conserv.* 145: 30–38.
- JONES, C.G., LAWTON, J.H., SHACHAK, M. (1994): Organisms as ecosystem engineers. *Oikos* 69: 373–386.
- JONES, C.G., LAWTON, J.H., SHACHAK, M. (1997): Positive and negative effects of organisms as physical ecosystem engineers. *Ecology* 78: 1946–1957.
- KING, T.J. (1976): The viable seed contents of ant-hill and pasture soil. *New Phytol.* 77: 143–147.

- KING, T.J. (1977a): The plant ecology on ant-hills in calcareous grasslands. I Patterns of species in relation to ant-hills in Southern England. *J. Ecol.* 65: 235–256.
- KING, T.J. (1977b): The plant ecology on ant-hills in calcareous grasslands. II Succession on the mounds. *J. Ecol.* 65: 257–278.
- KING, T.J. (1977c): The plant ecology on ant-hills in calcareous grasslands. III Factors affecting the population sizes of the selected species. *J. Ecol.* 65: 279–315.
- KING, T.J. (1981): Ant-hill vegetation in acidic grasslands in the Gower Peninsula, South Wales. *New Phytol.* 88: 559–571.
- KING, T.J. (2003): Mosses and aspect; why is *Scelopodium purum* abundant on the north-facing sides of ant-hills? *J. Bryol.* 25: 211–213.
- KING, T.J. (2006): The value of ant-hills in grasslands. *British Wildlife* 17: 392–397.
- KING, T.J. (2007): The roles of seed mass and persistent seed banks in gap colonisation in grassland. *Plant Ecol.* 193: 233–239.
- KRÄMER, B., KÄMPF, I., ENDERLE, J., PONIATOWSKI, D., FARTMANN, T. (2012a): Microhabitat selection in a grassland butterfly: a trade-off between microclimate and food availability. *J. Insect Conserv.* 16: 857–865.
- KRÄMER, B., PONIATOWSKI, D., FARTMANN, T. (2012b): Effects of landscape and habitat quality on butterfly communities in pre-alpine calcareous grasslands. *Biol. Conserv.* 152: 253–261.
- LENOIR, L. (2009): Effects of ants on plant diversity in semi-natural grasslands. *Arthr.-Plant Interactions* 3: 163–172.
- LÉON-CORTÉS, J.L., COWLEY, M.J.R., THOMAS, C.D. (2000): The distribution and decline of a widespread butterfly *Lycaena phlaeas* in a pastoral landscape. *Ecol. Entomol.* 25: 285–294.
- LÖFFLER, F., STUHLREHER, G. & T. FARTMANN (2013): How much care does a shrub-feeding hairstreak butterfly, *Satyrium spini* (Lepidoptera: Lycaenidae), need in calcareous grasslands? *European Journal of Entomology* 110: 145–152.
- MACDONALD, D.W., ATKINSON, R.P.D., BLANCHARD, G. (1997): Spatial and temporal patterns in the activity of European moles. *Oecologia* 109: 88–97.
- MARIOTTE, P., BUTTLER, A., KOHLER, F., GILGEN, A.K., SPIEGELBERGER, T. (2013): How do subordinate and dominant species in semi-natural mountain grasslands relate to productivity and land-use change? *Bas. Appl. Ecol.* 14: 217–224.
- MARSTALLER, R. (2005): Die Moosgesellschaften des Naturschutzgebietes „Mühlberg“ bei Niedersachswerfen (Landkreis Nordhausen). *Hercynia N. F.* 38: 89–111.
- MARSTALLER, R. (2007): Die Moosgesellschaften des Naturschutzgebietes „Sattelköpfe“ bei Hörningen (Landkreis Nordhausen) 118. Beitrag zur Moosvegetation Thüringens. *Herzogia* 20: 239–276.
- MCCLEAN, C.J., VAN DEN BERG, L.J.L., ASHMORE, M.R., PRESTON, C.D. (2011): Atmospheric nitrogen deposition explains patterns of plant species loss. *Glob. Chang. Biol.* 17: 2882–2892.
- MELLANBY, K. (1971): The mole. William Collins Sons & Co., London.
- MILLS, L.S., SOULÉ, M.E., DOAK, D.F. (1993): The keystone-species concept in ecology and conservation. *BioScience* 43: 219–224.
- MÖLLENBECK, V., HERMANN, G., FARTMANN, T. (2009): Does prescribed burning mean a threat to the rare satyrid butterfly *Hipparchia fagi*? Larval-habitat preferences give the answer. *J. Insect Conserv.* 13: 77–87.
- MORRIS, M.G. (2000): The effects of structure and its dynamics on the ecology and conservation of arthropods in British grasslands. *Biol. Conserv.* 95: 129–142.
- MUNGUIRA, M., GARCÍA-BARROS, E., CANO, J.M. (2009): Butterfly herbivory and larval ecology. In: SETTELE, J., SHREEVE, T.G., KONVIČKA, M., VAN DYCK, H. (Hrsg.): *Ecology of butterflies in Europe*. Cambridge University Press, Cambridge, S. 43–54.
- NEWBOLD, T., HUDSON, L.N., HILL, S.L.L., CONTU, S., LYSENKO, I., SENIOR, R.A., BÖRGER, L., BENNETT, D.J., CHOIMES, A., COLLEN, B., DAY, J., DE PALMA, A., DÍAZ, S., ECHEVERRÍA-LONDOÑO, S., EDGAR, M.J., FELDMAN, A., GARON, M., HARRISON, M.L.K., ALHUSSEINI, T., INGRAM, D.J., ITESCU, Y., KATTGE, J., KEMP, V., KIRKPATRICK, L., KLEYER, M., LAGINHA PINTO CORREIA, D., MARTIN, C.D., MEIRI, S., NOVOSOLOV, M., PAN, Y., PHILLIPS, H.R.P., PURVES, D.W., ROBINSON, A., SIMPSON, J., TUCK, S.L., WEIHER, E., WHITE, H.J., EWERS,

- R.M., MACE, G.M., SCHARLEMANN, J.P.W., PURVIS, A. (2015): Global effects of land use on local terrestrial biodiversity. *Nature* 520: 45–50.
- NILSSON, S.G., FRANZÉN, M., PETTERSSON, L.B. (2013): Land-use changes, farm management and the decline of butterflies associated with semi-natural grasslands in southern Sweden. *Nat. Conserv.* 6: 31–48.
- NUMMI, P., HOLOPAINEN, S. (2014): Whole-community facilitation by beaver: ecosystem engineer increases waterbird diversity. *Aqu. Conserv.: Mar. Freshw. Ecosys.* 24: 623–633.
- O'GRADY, A., BREEN, J., HARRINGTON, T.J., COURTNEY, R. (2013): The seed bank in soil from the nests of grassland ants in a unique limestone grassland community in Ireland. *Ecol. Eng.* 61: 58–64.
- ÖDMAN, A.M., SCHNOOR, T.K., RIPA, J., OLSSON, P.A. (2012): Soil disturbance as a restoration measure in dry sandy grasslands. *Biodivers. Conserv.* 21: 1921–1935.
- PAINE, R.T. (1969): A note on trophic complexity and community stability. *Am. Nat.* 103: 91–93.
- PONIATOWSKI, D., LÖFFLER, F., STUHLREHER, G., BORCHARD, F., KRÄMER, B., FARTMANN, T. (2016): Functional connectivity as indicator for patch occupancy in grassland specialists. *Ecol. Indic.* 67: 735–742.
- PONTIN, A.J. (1978): The numbers and distribution of subterranean aphids and their exploitation by the ant *Lasius flavus* (Fabr.). *Ecol. Entomol.* 3: 203–207.
- PRÉVOSTO, B., KUICKS, L., BERNHARDT-ROEMERMANN, M., DÖLLE, M., SCHMIDZ, W., HOFFMANN, M., VAN UYTVANCK, J., BOHNER, A., KREINER, D., STADLER, J., KLOTZ, S., BRANDL, R. (2011): Impacts of land abandonment on vegetation: successional pathways in European habitats. *Folia Geobot.* 46: 303–325.
- RECK, H. (1993): Haben Tierbauten eine Bedeutung als Habitatbaustein für den Feldgrashüpfer (*Chorthippus apricarius* L. 1758)? *Articulata* 8: 45–51.
- ROMERO, G.Q., GONÇALVES-SOUZA, T., VIERIRA, C., KORICHEVA, J. (2015): Ecosystem engineering effects on species diversity across ecosystems: a meta-analysis. *Biol. Rev.* 90: 877–890.
- ROOT-BERNSTEIN, M., EBENSPERGER, A. (2013): Meta-analysis of the effects of small mammal disturbances on species diversity, richness and plant biomass. *Austral Ecol.* 38: 289–299.
- SALA, O.E., CHAPIN, F.S., ARMESTO, J.J., BERLOW, E., BLOOMFIELD, J., DIRZO, R., HUBER-SANWALD, E., HUENNEKE, L.F., JACKSON, R.B., KINZIG, A., LEEMANS, R., LODGE, D.M., MOONEY, H.A., OESTERHELD, M., POFF, N.L., SYKES, M.T., WALKER, B.H., WALKER, M., WALL, D.H. (2000): Biodiversity – global biodiversity scenarios for the year 2100. *Science* 287: 1770–1774.
- SALZ, A. & T. FARTMANN (2009): Coastal dunes as important strongholds for the survival of the rare Niobe fritillary (*Argynnis niobe*). *Journal of Insect Conservation* 13: 643–654.
- SALZ, A. & T. FARTMANN (2017): Larval-habitat preferences of a threatened butterfly species in heavy-metal grasslands. *Journal of Insect Conservation*
- SCHREIBER, K.-F. (1969): Beobachtungen über die Entstehung von „Buckelwiesen“ auf den Hochflächen des Schweizer Jura. *Erdkunde* XXIII: 280–290.
- SCHULZ, B. (2003): Zur Bedeutung von Beweidung und Störstellen für Tierarten am Beispiel der Verteilung von Feldheuschreckengelegen im Grünland. *Articulata* 18: 151–178.
- SEIFAN, M., TIELBÖRGER, K., SCHLOZ-MURER, D., SEIFAN, T. (2010): Contribution of molehill disturbances to grassland community composition along a productivity gradient. *Acta Oecol.* 36: 569–577.
- SEIFERT, B. (1993): Die freilebenden Ameisenarten Deutschlands (Hymenoptera: Formicidae) und Angaben zu deren Taxonomie und Verbreitung. *Abh. Ber. Naturkundemus. Görlitz* 67: 1–44.
- SEIFERT, B. (2007): Die Ameisen Mittel- und Nordeuropas. Iutra Verlags- und Vertriebsgesellschaft, Boxberg.
- STOUTJESDIJK, P., BARKMAN, J.J. (1992): Microclimate, vegetation and fauna. Opulus Press, Uppsala.
- STREITBERGER, M., ACKERMANN, W., FARTMANN, T., KRIEGEL, G., RUFF, A., BALZER, S. & NEHRING, S. (2016a): Artenschutz unter Klimawandel: Perspektiven für ein zukunftsfähiges Handlungskonzept. *Naturschutz Biol. Vielfalt* 147: 1–367.
- STREITBERGER, M., FARTMANN, T. (2013): Molehills as important larval habitats for the Grizzled Skipper (*Pyrgus malvae*) in calcareous grasslands. *Eur. J. Entomol.* 110: 643–648.
- STREITBERGER, M., FARTMANN, T. (2015): Vegetation and climate determine ant-mound occupancy by a declining herbivorous insect in grasslands. *Acta Oecol.* 68: 43–49.

- STREITBERGER, M., FARTMANN, T. (2016): Vegetation heterogeneity caused by an ecosystem engineer drives oviposition-site selection of a threatened grassland insect. *Arthr.-Plant Interactions*. 10: 545–555.
- STREITBERGER, M., JEDICKE, E. & T. FARTMANN (2016b): Auswirkungen des rezenten Klimawandels auf die Biodiversität in Mittelgebirgen – eine Literaturstudie zu Arten und Lebensräumen. *Naturschutz Landschaftspl.* 48 (2): 37–45.
- STREITBERGER, M., ROSE, S., HERMANN, G., FARTMANN, T. (2014): The role of a mound-building ecosystem engineer for a grassland butterfly. *J. Insect Conserv.* 18: 745–751.
- STREITBERGER, M., SCHMIDT, C., FARTMANN, T. (2017): Contrasting response of vascular plant and bryophyte species assemblages to a soil-disturbing ecosystem engineer in calcareous grasslands. *Ecol. Engin.* 99: 391–399.
- THOMAS, J.A., THOMAS, C. D., SIMCOX, D.J., CLARKE, R.T. (1986): The ecology and declining status of the silver-spotted skipper butterfly (*Hesperia comma*) in Britain. *J. Appl. Ecol.* 23: 365–380.
- THOMAS, J.A., CLARKE, R.T. (2004): Extinction rates and butterflies. *Science* 305: 1563–1564.
- TSCHÖPE, O., TIELBÖRGER, K. (2010): The role of successional stage and small-scale disturbance for establishment of pioneer grass *Corynephorus canescens*. *Appl. Veg. Sci.* 13: 326–335.
- VAN SWAAY, C.A.M. (2002): The importance of calcareous grasslands for butterflies in Europe. *Biol. Conserv.* 104: 315–318.
- VAN SWAAY, C.A.M., WARREN, M., LOÏS, G. (2006): Biotope use and trends of European butterflies. *J. Insect Conserv.* 10: 189–209.
- VEEN, G.F., GEUVERINK, E., OLFF, H. (2012): Large grazers modify effects of aboveground–belowground interactions on small-scale plant community composition. *Oecologia* 168: 511–518.
- VEEN, G.F., OLFF, H. (2011): Interactive effects of soil-dwelling ants, ant mounds and simulated grazing on local plant community composition. *Bas. Appl. Ecol.* 12: 703–712.
- VEEN, P., JEFFERSON, R., DE SMIDT, J., VAN DER STRAATEN, J. (Hrsg.) (2009): Grasslands in Europe of high nature value. KNNV Publishing, Zeist.
- WALOFF, N. (1950): The egg pods of british short-horned grasshoppers (Acrididae). *Proc. R. Entomol. Soc. Lond. Ser. A, Gen. Stud.* 25: 115–126.
- WALOFF, N., BLACKITH, R.E. (1962): The growth and distribution of the mounds of *Lasius flavus* (Fabricius) (Hym: Formicidae) in Silwood Park, Berkshire. *J. Anim. Ecol.* 31: 421–437.
- WARREN, S.D., BÜTTNER, R. (2008): Active military training areas as refugia for disturbance-dependent endangered insects. *J. Insect Conserv.* 12: 671–676.
- WARREN, S.D., HOLBROOK, S.W., DALE, D.A., WHELAN, N.L., ELYN, M., GRIMM, W., JENTSCH, A. (2007): Biodiversity and the Heterogeneous Disturbance Regime on Military Training Lands. *Rest. Ecol.* 15: 606–612.
- WITTE, G.R. (1997): Der Maulwurf: *Talpa europaea*. Westarp-Wissenschaften, Magdeburg.
- WOODCOCK, B.A., PYWELL, R.F. (2010): Effects of vegetation structure and floristic diversity on detritivore, herbivore and predatory invertebrates within calcareous grasslands. *Biodivers Conserv* 19: 81–95.
- WOODELL, S.R.J., KING, T.J. (1991): The influence of mound-building ants on British lowland vegetation. In: HUXLEY, C.R., CUTLER, D.F. (Hrsg.): *Ant-plant interactions*. Oxford University Press, Oxford, S. 521–535.
- WRIGHT, J.P., JONES, C.G. (2006): The concept of organisms as ecosystem engineers ten years on: Progress, limitations, and challenges. *BioScience* 56: 203–209.