

DAFTAR PUSTAKA

- _____. 2017^a. Outlook tanaman pangan dan hortikultura 2017. Pusat Data dan Sistem Informasi Pertanian. Kementerian Pertanian.
- _____. 2017^b. ABC Guide to Mineral Fertilizers. Norway: Yara International ASA.
- Ai, N.S., dan Y. Banyo. 2011. Konsentras klorofil daun sebagai indikator kekurangan air pada tanaman. *Jurnal ilmiah sains*, 11: 166-173.
- Akbar, M. A. 2012. Optimasi ekstraksi *spent bleaching earth* dalam *recovery* minyak sawit. Universitas Indonesia.
- Akinci, I. E. and S. Akinci. 2010. Effect of chromium toxicity on germination and early seedling growth in melon (*Cucumis melo* L). *African Journal of Biotechnology*, 9 (29) : 4589-4594
- Alisbury, F.B., and C.W. Ross. 1995. Plant physiology (Fisiologi Tumbuhan, alih bahasa: D.R. Lukman dan Sumaryono). Penerbit ITB, Bandung.
- Alloway, B. J. 1995. Heavy Metal in Soils Second edition. Blackie Academic and Professional.
- Anggarwulan, E., Solichatun, dan W. Mudyantini. 2005. Pengaruh ketersediaan air terhadap pertumbuhan dan kandungan bahan aktif saponin tanaman ginseng jawa (*Talinum paniculatum* Gaertn.). *Biofarmasi*, (3): 47-51.
- Anggraeni, S., T. Setyaningrum. dan M. Y. Listiawan. 2017. Perbedaan kadar malondialdehid (MDA) sebagai petanda stress oksidatif pada berbagai derajat Akne Vulgaris. *Berkala ilmu kesehatan kulit dan kelamin*, 29: 31-43.
- Anonim. 1991. Kesuburan Tanah. Departemen Pendidikan dan Kebudayaan. Jakarta.
- Anonim. 2016. Statistik Perkebunan Indonesia: Kelapa Sawit 2015-2017. Jakarta: Direktorat Jenderal Perkebunan.
- Balai Penelitian Tanah. 2009. Petunjuk Teknis Analisis Kimia Tanah, Tanaman, Air dan Pupuk. Balai Penelitian Tanah, Badan Penelitian dan Pengembangan Pertanian. Bogor.
- Bautista, K., Ofelia., C. Y. Petch. 1983. Yong cob corn: suitable, nutritive, value and a optimum stage of maturity. *The Philippines Agriculturist*, 66(9): 232-244.
- Benson. N. U., W. U. Anake., and U. M. Etesin. 2014. Trace metals levels in inorganic fertilizers commercially available in nigeria. *Journal of scientific research & reports*, 3(4): 610-620.

- Blokhina, T. K., dan O. A. Karpenko. 2019. Heavy Metals Pollution of a Solid Waste Landfill. *E3S Web of Conferences*. 116, 000010.
- Buntoro, B. H., R. Rogomulyo, dan S. Trisnowati. 2014. Pengaruh takaran pupuk kandang dan intensitas cahaya terhadap pertumbuhan dan hasil temu putih (*Curcuma zedoaria* L.). *Vegetalika*, 3(4): 29-39.
- Campbell, W. H. 1988. Nitrate reductase and its role in nitrat assimilation in plants. *Physiologia Plantarum*. 74: 214-219.
- Chandi, G. K., B. S. Gill. 2011. Production and characterization of microbial carotenoids as an alternative to synthetic colors: A review. *International Journal of Food Properties*, 14: 503-513.
- Cha-um, S., T. Takabe, and C. Kirdmanee. 2010. Ion content, relative electrolyte leakage, proline accumulaiton, photosynthetic abilities and growth characters of oil palm seedlings in response to salt stress. *Pakistan Journal of Botany*, 42(3): 2191-2200.
- Cheong, K. Y., S. K. Loh, and J. Salimon. 2013. Effect of spent bleaching earth based bio organic fertilizer on growth, yield and quality of eggplants under field condition. *AIP Conference Proceedings*, 1571(744): 744-748.
- Chibueze, U. F., E. I. Akubugwo, K. N. Agbafor, N. A. Lebe, N. J. Nwulari, and E. D. Nneka. 2012. Appraisal of heavy metal content in commercial inorganic fertilizer blended and marketed in Nigeria. *American journal of chemistry*, 2: 228-233.
- Darlita, R. R., B. Joy, and R. Sudirja. 2017. Analisis beberapa sifat kimia tanah terhadap peningkatan produksi kelapa sawit pada tanah pasir di perkebunan kelapa sawit Selangkun. *Jurnal Agrikultura* 28, (1): 15-20.
- Dedemo, G.C., Rodrigues, F. A. Roberto, P. G. Neto, C. B. Franca, and S. M. Zingaretti. 2013. Osmoprotection in sugarcane under water deficit conditions. *Plant Stress*, 7(1):1-7.
- Dewi, A. M. 2015. Pertumbuhan Kelapa Sawit (*Elaeis guineensis* Jacq.) pada Beberapa Tingkat Kemiringan Lahan Hutan Harapan Jambi. Fakultas Pertanian. Institut Pertanian Bogor. Skripsi.
- Eskandari, H. 2011. The importance of iron (Fe) in plant products and mechanism of its uptake by plants. *Journal application environmen biology*, 10 : 448-452.
- Evianti, dan Sulaeman. 2009. Analisis kimia tanah, tanaman, air, dan pupuk. Balai penelitian tanah, departemen pertanian.
- Farooq, M. Wahid, A. Kobayashi, N. Fujita, and S. M. A. Basra. 2009. Plant drought stress: effects, mechanisms and management. *Agron, Sus-tain, Dev.*, 29:185-212.

- Farooq, M., A. Wahid, N. Kobayashi, D. Fujita, and S. M. A. Basra. 2009. Plant drought stress: effects, mechanisms and management. *Agronomy for Sustainable Development* 29, (1): 185-212.
- Fitter, A. H., T. R. Stickland. 1992. Fractal characterization of root system architecture. *Funct Ecol*, 6:632-635.
- Gardner, F. P., R. B. Pearce, and R. L. Mitchell. 1991. Physiology of crop plant (fisiologi tanaman budidaya, alih bahasa : H. Susilo dan Subiyanto). Penerbit Universitas Indonesia. Jakarta.
- Ghasemzadeh, A., and N. Ghasemzadeh. 2011. Flavonoid, and phenolic acids: role and biochemical activity in plant and human. *Journal of medicinal plant research*, 5: 6697-6703.
- Ghoulam, C., A. Foursy, and K. Fares. 2002. Effects of salt stress on growth, inorganic ions and proline accumulation in relation to osmotic adjustment in five sugar beet cultivars. *Environmental and Experimental Botany* 47, (1):39-50.
- Gomes, M. A. C., R. A. Davis, M. S. Suzuki, and A. P. Vitoria. 2017. Plant chromium uptake and transport, physiological, and recent advances in molecular investigations. *Journal ecotoxicology and environmental safety*, 40: 55-64.
- Graham, E. R. 1948. Determination of soil organic matter by means of a photoelectric colorimeter. *Soil Sci.* 65: 181-183.
- Hafeez, B., Y. M. Khanif, and M. Saleem. 2013. Role of zinc in plant nutrition-A Review. *American journal of experimental agriculture*, 3: 374-391.
- Hajek, B. F., F. Adams., and J. T. Cope. 1972. Rapid determination of exchangeable bases, acidity and cation exchange capacity. *Soil Sci. Soc. Am. Proc.* 36: 436-438.
- Hakim, N., M. Y. Nyapka, A. M. Lubis, S. G. Nugroho, M. R. Saul, M. Diha, G. B. Hong, dan H. H. Bailey. 1986. Dasar-Dasar Ilmu Tanah. Universitas Lampung. Lampung.
- Hallauer, A. R., dan J. H. Miranda. 1981. Quantitative Genetics in Maize Breeding. *Iowa State University Press*, Ames: 124-126.
- Hanafiah, K. A. 2005. Dasar-Dasar Ilmu Tanah. PT. Raja Grafindo Persada. Jakarta.
- Handayani, T., A. Fibriyanti, dan I. Pratiwi. 2007. Kajian Peningkatan Kandungan Zat Besi (Fe), Seng (Zn), dan Beta Karoten pada Tanaman Singkong (*Manihot esculenta* Crantz sin.) melalui Teknologi Biofortifikasi. Institut Pertanian Bogor. Bogor: Karya Tulis Ilmiah.
- Hardjowigeno, H. S, 2003, Ilmu Tanah. CV Akademika Pressindo. Jakarta.

- Haryanti, S. 2010. Jumlah dan distribusi stomata pada daun beberapa spesies tanaman dikotil dan monokotil. *Buletin Anatomi dan Fisiologi*, (18): 21-28.
- Hazardous Waste Management System: Identification and Listing of Hazardous Waste; Toxicity Characteristics Revisions, Enviromental Protection Agency (40 CFR parts 261, 264, 265, 268, 271, and 302), Federal register, vol. 55, No. 61 (1990).
- Helbianuramdan, N., Hindrayawati, and R. R. D. Julia. 2017. Aktivasi *deoiled spent bleaching earth* (DSBE) dengan menggunakan metode ultrasonik untuk mengadsorpsi ion logam Pb²⁺. *Jurnal Atomik*, 2(2): 241-247.
- Hendriyani, I. S., dan N. Setiari. 2009. Kandungan Klorofil dan Pertumbuhan Kacang Panjang (*Vigna sinensis*) pada Tingkat Penyediaan Air yang Berbeda. *J. Sains & Mat*, 17(3): 145-150.
- Hidayati, N. 2013. Mekanisme fisiologi tumbuhan hiperakumulator logam berat. *Jurnal teknologi lingkungan* 14: 75-82.
- Irdiani, I., Y. Sugito., dan Soegianto. 2002. Pengaruh dosis pupuk organik cair dan dosis urea terhadap pertumbuhan dan hasil tanaman jagung manis. *Agrivita*.
- Jacobs, A., K, Ford, K. J. Kretschmer, and M. Tester. 2011. Rice plants expressing the moss sodium pumping ATPase PpENA1 maintain greater biomass production under salt stress. *J. Plant Biotechnol*, 9:838-847.
- Jones Jr., J. B. 1984. Laboratory Guide of Exercises in Conducting Soil Tests and Plant Analysis. Benton Laboratories, INC, Athens. Georgia. p. 62.
- Jones, Jr. J. B. 2005. Hydroponics: A Practical Guide for the Soilless Grower 2nd edition. CRC Press. New York.
- Kaimal, T. N. B., P. Vijayalakshmi, A. A. Laximi, dan B. Ramakinga. 2002. Process for simultaneous conversion of adsorbed oil to alkyl esters and regeneration of commercial spent bleaching earth for reuse. U.S. Patent No. 0115875 A1.
- Kasno, A., A. Rachim, Iskandar, dan S. J. Adiningsih. 2014. Hubungan nisbah K/Ca dalam larutan tanah dengan dinamika hara K pada Ultisol dan Vertisol lahan kering. *Jurnal Tanah dan Lingkungan*, 6: 7-13.
- Ketaren, S. 2005. Pengantar Teknologi Minyak dan Lemak Pangan. UI-Press. Jakarta.
- Kurniawan, M. T., Yusnimar, dan S. Helianty. 2015. Penentuan kesetimbangan adsorpsi *regenerated spent bleaching earth* (RSBE) terhadap ion Fe (iii). *Jurnal JOM FTEKNIK*, 2(2): 1-7.
- Kusuma, W. A. Y. 2012. Bentonit Pacitan Sebagai Adsorben Untuk Delorosiasi CPO (*Crude Palm Oil*). Universitas Airlangga.

- Lee, G. J., B. G. Kang, T. I. Kim, T. J. Kim, and J. H. Kim. 2007. Tomato hydroponics in korea. *Fruit, Vegetable and Cereal Science and Biotechnology*, 1: 104-109.
- Manaker, G. H. 1981. Interior Plantscapes. Prentice-Hall Englewood Cliffs. New Jersey.
- Mansour, M. M. F. 1997. Cell permeability under salt stress. Strategies for Improving Salt Tolerance in Hingher Plants. *Science Publ, Enfield*, 87-110.
- Marschner, H. 1986. Mineral Nutrition of Higher Plants. London: Academic Press.
- Marschner, H. 1995. Mineral Nutrition of Higher Plants. London: Academic Press.
- McGrath, S. P., C. Mico, R. Curdy, and F. J. Zhao. 2010. Predicting molybdenum toxicity to higher plants : influence of soil properties. *Journal Environmental pollution*, 158: 3095-3102.
- Medeiros, M. J. L, Silva, de. A. M. M., Granja, M. M. C. Silvia-Junior, G. D. S. E. Camara, and L. Willading. 2015. Effect of exogenous proline in two sugarcane genotypes grown in vitro under salt stress. *Acta Biol, Colomb.*, 20(2):57-63.
- Ministry of State for Population and Environment Republic of Indonesia and Dalhousie University Canada. 1992. Environmental Management in Indonesia. Report on Soil Quality Standards for Indonesia (interim report).
- Mousavi, S. R., M. Shahsavari, and M. Rezaei. 2011. A general in manganese importance for crops production. *Australian journal of basic and applied sciences*, 9: 1799-1803.
- Mujiyati, and Supriyadi. 2009. Effect of manure and NPK to increase soil bacterial population of Azotobacter and Azospirillus in chili (*Capsicum annuum* L.) cultivation. *BioScience*, 1(2): 59-64.
- Munawar, A. 2011. Kesuburan Tanah dan Nutrisi Tanaman. IPB Press. Bogor.
- Murray, R. K., D. K. Granner, V. W. Roadwell. 2009. Harper's Illustrated Biochemistry. In: Wulandari, N. Randy, L. Dwijayanti, L. Liena, F. Dany, L. Y. Rachman. editors. *Harper Biochemistry*, 27th ed. Jakarta: EGC.
- Mustofa, A. 2007. Perubahan sifat fisik, kimia dan biologi tanah pada hutan alam yang diubah menjadi lahan pertanian di kawasan taman nasional Gunung Leuser. Institut Pertanian Bogor. Skripsi.
- Nasution, E. Z. 2003. Mafaat dari beberapa jenis *bleaching earth* terhadap warna CPO (*crude palm oil*). *Jurnal Sains Kimia*, 7(2): 31-35.
- Notohadiprawiro. 1998. Tanah dan Lingkungan. Direktorat Jenderal Pendidikan Tinggi Departemen Pendidikan dan Kebudayaan. Jakarta.

- Nuccio, M. L., Rhodes, D. S. D. McNeil, and A. D. Handson. 1999. Metabolic engineering of plants for osmotic stress resistance. *Current Opinion in Plant Biology*, 2:128-134.
- Nugroho, H. 2006. Struktur dan Perkembangan Tumbuhan. Depok: Penebar Swadaya.
- Nur, M., H. B. Jumin, dan Maizar. 2016. Pertumbuhan tanaman ceplukan (*Physalis angulata* L.) pada tanah tercemar limbah bleaching earth dengan remediasi pupuk kandang. *Jurnal dinamika pertanian*, 32: 35-50.
- Olsen, S. R., C. V. Cole., F. S. Watanabe., and L. A. Dean. 1954. Estimation of Available P in Soils by Extraction with Sodium Bicarbonate. USDA cir. 939: 242-246.
- Ouma, J. P., M. M. Young, and N. A. Reichert. 2004. Optimization of in vitro regeneration of multiple shoots from hypocotyl sections of cotton (*Gossypium hirsutum* L.). *African Journal of Biotechnology*, 3(March), 169-173.
- Palupi, E. R., Y. Dedywiryanto. 2008. Kajian karakter toleransi cekaman kekeringan pada empat genotipe bibit kelapa sawit (*Elaeis guineensis* Jacq). *Buletin Agronomi*, 36: 24-32.
- Panda, S. K., and S. Choudhury. 2005. Toxic metals in plants : Chromium stress in plants. *Brazilian Journal of Plant Physiology*, 17(1).
- Plessis, J. D. 2003. Maize Production. South Africa: Epartement of Agriculture and Obtainable from Resource Centre.
- Praptiwi, L. W., J. Pradana, dan Renanto. 2012. Pengendalian reaktor preneutralizer pada pabrik pupuk NPK dengan menggunakan pid controller. *Jurnal Teknik Pomitis*, 1(1): 1-4.
- Rasheed, R., A. Wahid, and M. Farooq. 2011. Role of proline and glycinebetain pretreatments in improving heat tolerance of sprouting sugarcane (*Saccharum* sp.) buds. *Plant Growth Regul*, 10 p.
- Rathinasabapathi, B. 2000. Metabolic engineering for stress tolerance : installing osmoprotectant synthesis pathways. *Annals of Botany*, 86:709-716.
- Ratnasari, S., E. T. S. Putra, and D. Indradewa, 2017. Analysis of the growth of oil palm (*Elaeis guineensis* Jacq.) exposed by aluminum toxicity and silica as an amelioration. *Agricultural Science*, 2(1): 15-19.
- Reeuwijk, L. P. V. 1993. Procedures for Soil Analysis. Technical Paper, International Soil Reference and Information Centre. Wageningen, The Netherlands.

- Rieger, M., P. Litvin. 1999. Root system hydraulic conductivity in species with contrasting root anatomy. *J. Exp Bot*, 50:201-209.
- Rinanto, Y. 2010. Kandungan sukrosa dan prolin tebu (*Saccharum officinarum* L.) selama cekaman kekeringan. *Jurnal Biomedika*, 8(3):9.
- Rizwan, M., S. Ali, Z. U. Rehman, M. Adress, M. Arshad, M. F. Qavvum, L. Ali, A. Hussain, C. Sas, and M. Imran. 2017. Alleviation of cadmium accumulation in maize (*Zea mays* L.) by foliar of zinc oxide nanoparticles and biochar to contaminated soil. *Journal environment pollution*, 248: 358-367.
- Rout, G. R., and S. Sahoo. 2015. Role of iron in plant growth and metabolism. *Review in Agricultural science*, 3: 1-24.
- Safrizal. 2007. Studi pemupukan nitrogen, fosfor dan kalium pada tanaman manggis tahun produksi ketiga. Institut Pertanian Bogor. Tesis.
- Salisbury, F. B., and C. W. Ross. 1992. *Plant Physiology*. 4rd Ed. Wadsworth Publishing Company. California.
- Saputra, A. B., Y. Sahan, dan I. Zahrina. 2014. *Recovery Minyak dari Spent Bleaching Earth (SBE)*. Univesitas Riau.
- Seregin, I. V., and A. D. Kozhevinkova. 2006. Physiological role of nickel and its toxic effects on higher plants. *Russian jorunal of plant physiology*, 53: 257-277.
- Setyorini, D., Soeparto., dan Sulaeman. 2003. Kadar Logam Berat dalam Pupuk. Di dalam: pertanian produktif ramah lingkungan mendukung ketahanan dan keamanan pangan. prosiding seminar nasional peningkatan kualitas pertanian dan produk pertanian. Bogor: Badan penelitian dan pengembangan pertanian : 43-49.
- Silalahi, B. M., dan Supijanto. 2017. Pengelolaan limbah kelapa sawit (*Elaeis guineensis* Jacq.) di Angsana Estate, Kalimantan Selatan. *Bul Agrohorti*, 5(3): 373-383.
- Silva, R. L. O., J. R. C. Netto, V. Pandolfi, S. M. Chabegras, W. L. Burnquist, A. M. Benko-Iseppon, and E. A Kido. 2011. Transcriptomics of sugarcane osmo-protectants under drought. *Plants and Environment*, 4: 89-106.
- Singh, A. L., R. S. Jat, V. Chaudhari, H. Bariya, and S. J. Sharma. 2010. Toxicities and tolerance of mineral elements boron, cobalt, molybdenm, and nickel in crop plants. *Journal of plant stress*, 4: 31-56.
- Sitompul, S. M., dan B. Guritno. 1995. Analisis Pertumbuhan Tanaman. Gadjah Mada University Press. Yogyakarta.
- Sudjadi, M., I. M. Widjik S., dan M. Soleh. 1971. Penuntun Analisa Tanah. Publikasi No.10/71, Lembaga Penelitian Tanah. Bogor.

- Sukati, B. H., P. C. D. Jager., J. G. Annandale., P. D. Tanner. 2018. The hazardous status of high density sludge from acid mine drainage neutralization. *Sustainability*, 10: 4185.
- Sumarno, A., E. Widodo, A. Nugroho., Triastuti, dan L. Suryanegara. 2017. Pemanfaatan limbah *spent bleaching earth* (SBE) dari industri pengolahan minyak kelapa sawit pada aplikasi bata beton. Prosiding Seminar Lignoselulosa.
- Syahputra, R. 2005. Fitoremediasi Logam Cu dan Zn dengan Tanaman Enceng Gondok. *Logika*, 2: 56-67.
- Tagliavini, M. L. J., Veto, and N. E. Looney. 1993. Measuring root surface area and mean root diameter of peach seedlings by digital image analysis. *Hortscience*, 11: 1129-1130.
- Taiz, L., and E. Zeiger. 2010. Plant physiology, 5th ed, Sinauer Associates. Sunderland. USA.
- Tasma, I. M., dan S. Arumsari. 2013. Analisis divertasi genetik aksesori kelapa sawit kamerun berdasarkan marka SRR. *Jurnal Littri*, 19(4): 194-202.
- Tasma, I. M., I. Mariska, Syafaruddin, A. Warsun, D. Satyawan, E. G. Lestari, R. Purnamaningsih, R. Yunita, B. Martono, R. Purba, D. Asmono, P. Lestari, I. Roostika, N. Nova, S. Damanik, A. Risliawati, S. Purwiyanti, S. Diantina, dan T. Z. P. Hariyadi. 2010. Penelitian peningkatan produktivitas kelapa sawit (>15%) dan kadar minyak (>10%) dengan abnormalitas <2% melalui *molecular breeding*. Laporan Akhir Penelitian APBN 2010. Pusat Penelitian dan Pengembangan Perkebunan. Badan Penelitian dan Pengembangan Pertanian, 61 hlm, (tidak dipublikasikan).
- Tisdale, S. and W. Nelson. 1975. Soil Fertility and Fertilizer. Mc Millan Publs, Co, Inc. New York.
- Tsonew, T., and F. J. C. Lidon. 2012. Zinc in plants-an overview. *Journal food agriculture*, 24 : 322-333.
- USDA. 2004. Soil Survey Laboratory Methods Manual. p.167-365, 616-643. In Burt, R. (Ed.). Soil Survey Investigations Report No.42, Vers.4,0. Natural Resources Conservation Service, United States Department of Agriculture.
- Van der Mescht, A., J. A. de Ronde, F. T. Rossouw. 1999. Chlorophyll Fluorescence and Chlorophyll Content as A Measure of Drought Tolerance in Potato. *South African Journal of Science*, 95:407-412.
- Vargas, M., J. Crossa, K. Sayre, M. Reynolds, M. E. Ramirez, M. Talbot. 1998. Interpreting genotype x environment interaction in wheat by partial least square regression. *Crop Sci*, 38(3): 379-689.

- Widyawati, Y., dan D. Ufidian. 2017. Pengaruh penambahan *spent bleaching earth* pada minyak nyamplung untuk gemuk lumas. *Konversi*, 6(1): 1-6.
- Winarsih, S. 2015. Dampak kemarau terhadap produksi dan produktivitas tebu tahun 2015 dan tahun 2016. Materi presentasi pada pertemuan taksasi dan prognosa produksi gula. Direktorat Jendral Perkebunan. Yogyakarta, 26-27 Agustus 2015.
- Wiraatmaja, W. 2016. Pergerakan hara mineral dalam tanaman. Bahan ajar agroteknologi. Fakultas pertanian UNUD.
- Yasin, M., Sumarno, dan N. Amin. 2014. Perakitan Varietas Unggul Jagung Fungsional. Jakarta: IAARD Press.
- Yasur, J, and P. U. Rani. 2013. Environmental effects of nanosilver: Impact on castor seed germination, seedling growth, and plant physiology. *Environmental Science and Pollution Research*, 20(12): 8636-8648.
- Young, F. 1987. Refining and fractionation of palm oil. The Society of Chemical Industri Publication. New York, 47-51.
- Yruela, I. 2005. Copper in plants. *Brazilia Journal plant physiology*, 17: 145-156.
- Yuniarti, A, and E. Kaya. 2015. efek kombinasi pupuk organik padat granul dan pupuk N, P, K, terhadap Zn total, Zn, tersedia, serapan Zn, serta hasil padi sawah pada inceptisol. *Jurnal budidaya pertanian* 11: 1-6.
- Zuraida, Sulistyani, D. Sajuthi, dan I. H. Suparto. 2017. Fenol, flavonoid, dan aktivitas antioksidan pada ekstrak kulit batang pulai (*Alstonia scholaris* R. Br). *Jurnal penelitian hasil hutan*, 35: 211-219.