

## DAFTAR PUSTAKA

Agrawal. *et al.* (2005) 'Enemy release? An experiment with congeneric plant pairs and diverse above- and belowground enemies'. *Ecology* 86:2979–2989

Al-Alawi, R. *et al.* (2017) 'Date palm tree (*Phoenix dactylifera* L.): Natural products and therapeutic options', *Frontiers in Plant Science*, 8(May), pp. 1–12. doi: 10.3389/fpls.2017.00845.

Ali F, Jasmi A.H, and Majid A.H. (2018) 'Diversity of termites spesies associated with different ages of oil palm plantes on tropical peat soil'. *Proceeding of the 12th Pasific Rim Termites Research Group Conference*.

Al-Qarawi, A. *et al.* (2004) 'Protective Effect of Extracts from Dates (*Phoenix dactylifera* L.) on Carbon Tetrachloride–Induced Hepatotoxicity in Rats', *Intern J Appl Res Vet Med*, 2(3), pp. 176–180. Available at: <http://jarvm.com/articles/Vol2Iss3/ELMOUGHJARVMVol2No304.pdf>.

Amala, U. and Shivalingaswamy, T. M. (2018) 'Effect of intercrops and border crops on the diversity of parasitoids and predators in agroecosystem', *Egyptian Journal of Biological Pest Control*. Egyptian Journal of Biological Pest Control, 28(1). doi: 10.1186/s41938-017-0015-y.

Arida, Sihotang, V, and Tihurua, E. (2014) 'Update on Indonesia's Draft of Invasive Alien Species'. *Bogor: Pusat Penelitian Biologi-LIPI*.

Ashman, T.-L. (2000) 'Pollinator selectivity and its implications for the evolution of dioecy and sexual dimorphism'. *Ecology*, 81: 2577–2591.

Asmaliyah, Hadi, E. E. and Irianto, R. S. B. (2019) 'Pests and diseases on forest plant in burned peatlands in South Sumatra', *IOP Conference Series: Earth and Environmental Science*, 308(1). doi: 10.1088/1755-1315/308/1/012071.

Awwad Ibrahim A dan Hussain Shalam M.(2015) 'Exploring The Possible Role of Date Fruit (*Phoenix dactylifera*, L) Ecxtract in Amelioration of Stroke in Rats'. *Asian Journal of Biomedical and Pharmaceutical Sciences* (2015) Volume 5, Issue 51

Barghini, P. *et al.* (2007) 'Vanillin production using metabolically engineered *Escherichia coli* under non-growing conditions', *Microbial Cell Factories*, 6(February). doi: 10.1186/1475-2859-6-13.

Bashir. *et al.* (2019) 'Insect pollinator diversity in four forested ecosystems of southern Punjab, Pakistan'. *Saudi Journal Biology Science*. doi:

10.1016/j.sjbs.2018.02.007.

Batra, S. W. T. *et al.* (1972) 'Termites and Soils', *Mycologia*, 64(5), p. 1204. doi: 10.2307/3758094.

Bedford G.O. (1980) 'Biology, ecology and control of palm rhinoceros beetle' *Annual Review of Entomology* 25:309-339.

Bornemissza G.F (2009) 'The Australian Dung Beetle Research unit of Pretoria'. *South African Journal of sciences*;75:257-260

Borror DJ, Triplehorn CA, Johnson NF. (2004) 'Pengenalalan Pelajaran Serangga. Edisi ke 6. Partosoedjono S, penerjemah'. Yogyakarta: Gajah Mada University Press. Terjemahan dari: An Introduction to the Study of Insects

Brzozowski, L. and Mazourek, M. (2018) 'A sustainable agricultural future relies on the transition to organic agroecological pest management', *Sustainability (Switzerland)*, 10(6). doi: 10.3390/su10062023.

Burks, C. S. (2015) *Sustainable Pest Management in Date Palm: Current Status and Emerging Challenges*, *Sustainable Pest Management in Date Palm: Current Status and Emerging Challenges*. doi: 10.1007/978-3-319-24397-9.

Casiraghi, M. *et al.* (2001) 'Nest provisioning and stinging pattern in *ammophila sabulosa* (hymenoptera, sphecidae): Influence of prey size', *Italian Journal of Zoology*, 68(4), pp. 299–303. doi: 10.1080/11250000109356422.

Chapman. R.F. (2013) 'The Insects Structure and Function Fifth Edition'. Cambridge University Press

Chao, C. C. T. and Krueger, R. R. (2007) 'The date palm (*Phoenix dactylifera* L.): Overview of biology, uses, and cultivation', *HortScience*, 42(5), pp. 1077–1082. doi: 10.21273/hortsci.42.5.1077.

CSIRO. (1991) 'The Insects of Australia A Textbook for Students and Research Workers Vol I & II'. *Division of Entomology*. Carlton Victoria: Melbourne University Press

Daily G.C. (1997) 'Nature's services: societal dependence on natural ecosystems. Island', Washington, DC.

Dueñas, M. A. *et al.* (2018) 'The role played by invasive species in interactions with endangered and threatened species in the United States: a systematic review', *Biodiversity and Conservation*. Springer Netherlands, 27(12), pp. 3171–3183. doi: 10.1007/s10531-018-1595-x.

Eggleton, P. (2000) 'Chapter 2 GLOBAL PATTERNS OF TERMITE DIVERSITY', pp. 25–51.

El-Shafie, H. A. F., Abdel-Banat, B. M. A. and Al-Hajhoj, M. R. (2017) 'Arthropod pests of date palm and their management', *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*, 12(January 2017), pp. 1–18. doi: 10.1079/PAVSNNR201712049.

Ellen, R. (2004) 'Processing Metroxylon sagu Rottboell (Arecaceae) as a technological complex: A case study from south central Seram, Indonesia', *Economic Botany*, 58(4), pp. 601–625. doi: 10.1663/0013-0001(2004)058[0601:PMSRAA]2.0.CO;2.

Evans, T. A. *et al.* (2011) 'Ants and termites increase crop yield in a dry climate', *Nature Communications*. Nature Publishing Group, 2(1), pp. 262–267. doi: 10.1038/ncomms1257.

De Groot, R. S., Wilson, M. A. and Boumans, R. M. J. (2002) 'A typology for the classification, description and valuation of ecosystem functions, goods and services', *Ecological Economics*, 41(3), pp. 393–408. doi: 10.1016/S0921-8009(02)00089-7.

Food and Agriculture Organization of The united Nation. (2007) 'Overview of forest pest indonesia'. Roma, OVERVIEW OF FOREST PESTS INDONESIA

Food and Agriculture Organization of The united Nation. (2016) 'Guidlines for surveillance ISPM 6'. Secretariat of The International Plant Protection Convention

Gosselin F. (2006) 'An assessment of the dependence of evenness indices on species richness'. *Journal of Theoretical Biology* 2006, 242, 591-597

Hadi. M, *et al.* (2009) 'Entomologi Edisi Pertama', *Graha Ilmu* Yogyakarta

Haneda N.F and Panggabean P.B. (2019) 'Diversity of Butterflies on Different Ecosystems and Seasons'. *IOP Conference. Series: Earth and Environmental Science* 394 (2019) 012041

Hansen, S. *et al.* (2018) 'Alien plants have greater impact than habitat fragmentation on native insect flower visitation networks', *Diversity and Distributions*, 24(1), pp. 58–68. doi: 10.1111/ddi.12656.

Harder, L.D., and Barrett, S.C.H. (1995) 'Mating costs of large floral displays in hermaphrodite plants' *Nature* (London), 373: 512–515.

Henderson, A. and Pitopang, R. (2018) 'Short communication: The rattans (arecaceae) of Wallacea', *Biodiversitas*, 19(1), pp. 18–21. doi:

10.13057/biodiv/d190103.

Herawati, W. *et al.* (2018) 'Variation analysis of three banyumas local salak cultivars (*Salacca zalacca*) based on leaf anatomy and genetic diversity', *Biodiversitas*, 19(1), pp. 119–125. doi: 10.13057/biodiv/d190118.

Hidayat R, Yusran and Sari I. (2014) 'Hama pada tegakan jati (*Tectona grandis* L.f.) di desa Talaga kecamatan Dampelas kabupaten Donggala'. *Warta Rimba* 2(1) 17-23

Hill, D. S. and Hill, D. S. (1997) 'Pest Definitions', *The Economic Importance of Insects*, pp. 51–63. doi: 10.1007/978-94-011-5348-5\_3.

Howard, et al. 2001. *Insect on palm*. CABI Publishing. New York

Huis, A. Van (1987) *The Global Impact of AIDS, Health Policy*. doi: 10.1016/0168-8510(87)90137-0.

Huis, A. Van (2014). *The global impact of insect*. Netherland. Wageningen University

Hung, K. L. J. *et al.* (2018) 'The worldwide importance of honey bees as pollinators in natural habitats', *Proceedings of the Royal Society B: Biological Sciences*, 285(1870). doi: 10.1098/rspb.2017.2140.

Indrawan Muhammad (2007) *Biologi Konservasi*. Jakarta. Yayasan Obor Indoensia

Indriyanti, D. R. *et al.* (2019a) 'Identification of insect pests that attack the coconut plants in Jepara regency', *Journal of Physics: Conference Series*, 1321(3), pp. 3–6. doi: 10.1088/1742-6596/1321/3/032030.

Indriyanti, D. R. *et al.* (2019b) 'Identification of insect pests that attack the coconut plants in Jepara regency', *Journal of Physics: Conference Series*, 1321(3), pp. 8–11. doi: 10.1088/1742-6596/1321/3/032030.

Iqbal, M. *et al.* (2018) 'Quantitative and qualitative characteristics of date palm cv. Gulistan in response to pollination times', *Sarhad Journal of Agriculture*, 34(1), pp. 40–46. doi: 10.17582/journal.sja/2018/34.1.40.46.

Ito Yosiaki, et al. (1994) 'Differenece in nesting site of *Ropalidia fasciata* (Hymenoptera: Vespidae) in Okinawa and Western Taiwan', *Journal Ethology*. 12: 187-191, 1994

Itô., Y. and Kasuya, E. (2005) 'Demography of the Okinawan eusocial wasp *Ropalidia fasciata* (Hymenoptera: Vespidae) I. Survival rate of individuals and

colonies, and yearly fluctuations in colony density', *Entomological Science*, 8(1), pp. 41–64. doi: 10.1111/j.1479-8298.2005.00099.x.

Jankielsohn, A. (2018) 'The Importance of Insects in Agricultural Ecosystems', *Advances in Entomology*, 06(02), pp. 62–73. doi: 10.4236/ae.2018.62006.

Kalshoven LGE. (1957). *An analysis of ethological, ecological and taxonomic data on Oriental Hispinae (Coleoptera, Chrysomelidae)*. Tijdschrift voor Entomologie 100: 5–24

Kalshoven LGE. (1981). *Pests of crops in Indonesia*. P.T. Ichtiar Baru-Van Hoeve, Jakarta, Indonesia, 701 pp.

Kamarudin, N, MB Wahid, and R Moslim. (2005) 'Environmental Factors Affecting The Population Density Of *Oryctes rhinoceros* In A Zero-Burn Oil Palm Replant'. *Journal of Oil Palm Research* (17) 53-63

Kartikasari Hanna. (2015) 'Analisis biodiversitas serangga di hutan kota malabar sebagai urban ekosistem services Kota Malang pada musim pancaroba', *Jurnal Produksi Tanaman* Vol 3 No 8. Malang

Keane R.M and Crawley M.J.( 2002) 'Exotic plant invasions and the enemy release hypothesis'. *TREE* 17:164–170

Kehati D I Y. (2016) 'Belalang kayu (*Valanga nigricornis* (Burmeister, 1838))' [kehati.jogjaprovo.go.id/detailpost/belalangkayu](http://kehati.jogjaprovo.go.id/detailpost/belalangkayu)

KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN. (2015) 'Strategi Nasional dan Arahana Rencana Aksi Pengelolaan Jenis Asing Invasif di Indonesia', Jakarta, Deputi Bidang Pengendalian Kerusakan Lingkungan dan Perubahan Iklim, Kementerian Lingkungan Hidup dan Kehutanan Republik Indonesia ISBN : 978-602-72942-2-6

Khan, A. and Ahmad, W. (2018) 'Termites and Sustainable Management', *Termites and Sustainable Management*, (March). doi: 10.1007/978-3-319-72110-1.

Kim, K. C. (1993) 'Biodiversity, conservation and inventory: why insects matter', *Biodiversity and Conservation*, 2(3), pp. 191–214. doi: 10.1007/BF00056668.

Lemlem, A., Alemayehu, M. and Endris, M. (2018) 'Date Palm Production Practices and Constraints in the Value Chain in Afar Regional State, Ethiopia', *Advances in Agriculture*, 2018, pp. 1–10. doi: 10.1155/2018/6469104.

Li, H. *et al.* (2017) 'Polarization-dependent effects of an Airy beam due to the

spin-orbit coupling', *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, 34(7), pp. 1114–1118. doi: 10.1002/ecs2.1832.

LOSEY, J. E. and VAUGHAN, M. (2006) 'The Economic Value of Ecological Services Provided by Insects', *BioScience*, 56(4), p. 311. doi: 10.1641/0006-3568(2006)56[311:tevoes]2.0.co;2.

Luqman, H, A. *et al.* (2018) 'Diversity and compotition of beetles (Order: Coleoptera) in three different ages of oil palms in lekir oil palm plantation, perak, malaysia', *Serangga* 23 (1):58-71

Mahayu, W. M. and Taryono (2019) 'Coconut (*Cocos nucifera* L.) diversity in Indonesia based on SSR molecular marker', *AIP Conference Proceedings*, 2099(April). doi: 10.1063/1.5098418.

Male, I. N. *et al.* (2019) 'The effect of extract of date palm fruit (', 12(1), pp. 10–13.

Manickavasagan A. *et al.* (2012) 'Dates Production, Processing, Food, and Medicinal Values'. *Broken Sound Parkway NW*. CRC Press

Maron, J. L., Baer, K. C. and Angert, A. L. (2014) 'Disentangling the drivers of context-dependent plant-animal interactions', *Journal of Ecology*, 102(6), pp. 1485–1496. doi: 10.1111/1365-2745.12305.

Maryam *et al.* (2015) 'Evaluation of pollen viability in date palm cultivars under different storage temperatures', *Pakistan Journal of Botany*, 47(1), pp. 377–381.

Matthews J. *et al.* (2017) 'Inconsistencies in the risk classification of alien species and implications for risk assessment in the European Union', *Ecosphere* 8(6):e01832. 10.1002/ecs2.1832

Mboka Segu Wake, I. A., Soeprobowati, T. R. and Jumari (2018) 'The invasive alien plants threatened the balance of ecosystem in conservative area in Ontoloe Island, Flores-Indonesia', *Journal of Physics: Conference Series*, 1025(1), pp. 0–9. doi: 10.1088/1742-6596/1025/1/012033.

Meer, S. *et al.* (2017) 'Efficacy of *Phoenix dactylifera* L. (Date Palm) creams on healthy skin', *Cosmetics*, 4(2). doi: 10.3390/cosmetics4020013.

Meijer, K. *et al.* (2015) 'Phytophagous insects on native and non-native host plants: Combining the community approach and the biogeographical approach', *PLoS ONE*, 10(5). doi: 10.1371/journal.pone.0125607.

Mosqueira, M. J. *et al.* (2019) 'Consistent bacterial selection by date palm root system across heterogeneous desert oasis agroecosystems', *Scientific Reports*,



9(1), pp. 1–12. doi: 10.1038/s41598-019-40551-4.

Myers, J. H. and Sarfraz, R. M. (2017) 'Impacts of Insect Herbivores on Plant Populations', *Annual Review of Entomology*, 62(1), pp. 207–230. doi: 10.1146/annurev-ento-010715-023826.

Nair, et al. (2002) 'Rhinoceros Beetle (*Oryctes rhinoceros* L.) and its Bio Control Agents'. *Technical bulletin* No. 43. Central Plantation Crops Research Institute, Kayamkulam, Kerala. India

Nichols, E. *et al.* (2008) 'Ecological functions and ecosystem services provided by Scarabaeinae dung beetles', *Biological Conservation*, 141(6), pp. 1461–1474. doi: 10.1016/j.biocon.2008.04.011.

Nurmaisah. (2016) 'Keanekaragaman jenis dan potensi peran serangga pada lahan pertanian terusun belanda (*Solanum betaceum* Cav.) monokultur dan polikultur di Desa Dieng Kulon Jawa Tengah'. Tesis. Fakultas Biologi Universitas Gadjah Mada

Occhipinti, A. (2013) 'Plant coevolution: Evidences and new challenges', *Journal of Plant Interactions*, 8(3), pp. 188–196. doi: 10.1080/17429145.2013.816881.

Pradipta, A. P., Wagiman, F. X. and Witjaksono (2020) 'The potency of collecting larvae of *Oryctes rhinoceros* L. (Coleoptera: Scarabaeidae) in the oil palm plantation', *Agrivita*, 42(1), pp. 153–159. doi: 10.17503/agrivita.v42i1.2489.

Price PW, et.al. (2001) 'Insect Ecology First Published'. Cambridge University Press United Kingdom. 441-488

Pruessner A.H. (1920) 'Date culture in ancient Babylonia'. *Am. J. Semitic Lang. Literatures* 36(3):213–232.

Rahayu. *et al.* (2017) 'Keanekaragaman dan peran fungsional serangga Ordo Coleoptera di area reklamasi pascatambang batubara di Berau, Kalimantan Timur'. *Indonesian Journal of Entomology* Vol. 14 No. 2, 97–106

Rivas-Torres, G., Luke Flory, S. and Loiselle, B. (2018) 'Plant community composition and structural characteristics of an invaded forest in the Galápagos', *Biodiversity and Conservation*. Springer Netherlands, 27(2), pp. 329–344. doi: 10.1007/s10531-017-1437-2.

Robert G. *et al.* (2017)' Insect Biodiversity: Science and Society, Volume I', Second Edition. John Wiley & Sons Ltd

Robinson M.L. *et al.* (2012) 'The Date Palm in Southern Nevada'. Nevada. University of Nevada Cooperative Extension

Roy, H. E. *et al.* (2019) 'Developing a list of invasive alien species likely to threaten biodiversity and ecosystems in the European Union', *Global Change Biology*, 25(3), pp. 1032–1048. doi: 10.1111/gcb.14527.

Sallam Mohammed. (2014) 'Insect Damage : Damage on Post-harvest'. AGSI/FAO

Sanchez-Contreras, M. and Vlisidou, I. (2008) 'The diversity of insect-bacteria interactions and its applications for disease control', *Biotechnology and Genetic Engineering Reviews*, 25(1), pp. 203–244. doi: 10.5661/bger-25-203.

SARI, I. J. *et al.* (2017) 'Identifikasi Jenis Mikroorganisme pada Tanaman Kurma di Kawasan Tangerang', *Biospecies*, 10(2). doi: 10.22437/biospecies.v10i2.3540.

Schoonhoven L.M, Van Loon, J.J.A. and Dicke, M. (2005) 'Insect-Plant Biology' Oxford University Press. Oxford. UK, 400 p

Schowalter, T.D. (2006) 'Insect Ecology and Ecosystem Approach 2nd Edition'. Academic Press, New York.

Shalahuddin, *et al.* (2019) 'Pollinator diversity and soybean productivity with flowering plant (*Crotalaria* and *Rosella*)', *IOP Conf. Series: Earth and Environmental Science* 250 (2019) 012113

Shameem, K. M. *et al.* (2016) 'Natural history of *Javeta pallida* baly, 1858 on phoenix palms in India (Chrysomelidae, Cassidinae, Coelaenomenoderini)', *ZooKeys*, 2016(597), pp. 39–56. doi: 10.3897/zookeys.597.6876.

Sholahuddin *et al.* (2019) 'Pollinator diversity and soybean productivity with flowering plant (*Crotalaria* and *Rosella*)', *IOP Conference Series: Earth and Environmental Science*, 250(1). doi: 10.1088/1755-1315/250/1/012113.

Siddiki Aishatu. (2015) 'Insect diversity and composition during the wet and dry seasons in three forest types of Johor Malaysia'. Thesis. Faculty of Science, Technology and Human Development Universiti Tun Hussein Onn Malaysia

Siregar, E. H., Atmowidi, T. and Kahono, S. (2016) 'Diversity and Abundance of Insect Pollinators in Different Agricultural Lands in Jambi, Sumatera', *HAYATI Journal of Biosciences*. Elsevier Ltd, 23(1), pp. 13–17. doi: 10.1016/j.hjb.2015.11.002.

Sitompul A.F, *et al.* (2018) 'Molecular identification of coffee (*Coffea arabica*) pollinator insects in North Sumatra, Indonesia based on designed COI primers'. *Biodiversitas* Vol 19 Pages 1877-1883 DOI: 10.13057/biodiv/d190539



Solangi G.S. *et al.* (2008) 'Presence and absence of different insect predators against sucking insect pest of cotton'. *Journal of Entomology*. 5(1): 31-37

Soltani, R. (2010) 'The Rhinoceros Beetle *Oryctes agamemnon arabicus* in Tunisia: Current Challenge and Future Management Perspectives', *Tunisian Journal of Plant Protection*, 179(2).

Sorribas, J. *et al.* (2016) 'Abundance, movements and biodiversity of flying predatory insects in crop and non-crop agroecosystems', *Agronomy for Sustainable Development*. *Agronomy for Sustainable Development*, 36(2). doi: 10.1007/s13593-016-0360-3.

Stout, J. C. and Tiedeken, E. J. (2017) 'Direct interactions between invasive plants and native pollinators: evidence, impacts and approaches', *Functional Ecology*, 31(1), pp. 38–46. doi: 10.1111/1365-2435.12751.

Sukirno, S. *et al.* (2018) 'Palm weevil diversity in Indonesia: Description of phenotypic variability in asiatic palm weevil, *rhynchophorus vulneratus* (Coleoptera: Curculionidae)', *Journal of the Entomological Research Society*, 20(3), pp. 1–22.

Tallamy DW. (2004) 'Do alien plants reduce insect biomass?'. *Conservation Biology* 18:1–4

Tallamy, D. W., Ballard, M. and D'Amico, V. (2010) 'Can alien plants support generalist insect herbivores?', *Biological Invasions*, 12(7), pp. 2285–2292. doi: 10.1007/s10530-009-9639-5.

Turillazzi S, Turillazzi M. (1985) 'Notes on the social behavior of *Ropalidia fasciata* (F.) in west Java (Hymenoptera Vespidae)'. *Monitore Zoologico Italiano* (NS) 19, 219–230.

Uhmann E. (1943) 'Neue amerikanische Hispinen.100. Beitrag zur Kenntnis der Hispinen (Coleoptera: Chrysomelidae)'. *Folia Zoologica et Hydrobiologica* 12: 115–121.

Uhmann E. (1955) 'Hispinae aus Indonesia. I. Teil. 164. Beitrag zur Kenntnis der Hispinae (Coleoptera, Chrysomelidae)'. *Tijdschrift voor entomologie* 98: 133–146

Thapa, S. *et al.* (2018) 'Understanding the dynamics in distribution of invasive alien plant species under predicted climate change in Western Himalaya', *PLoS ONE*, 13(4), pp. 1–16. doi: 10.1371/journal.pone.0195752.

Ullah, M. *et al.* (2018) 'Effects of Different Pollination Methods on Fruit Quality and Yield of Date Palm Candidate Line Hillawi', *Journal of Environmental and Agricultural Sciences*, 17(January), pp. 55–62.

Wenninger E.J and Inouye R.S. (2008) 'Insect community response to plant diversity and productivity in a sagebrush–steppe ecosystem' *Journal of Arid Environments* 72 (2008) 24–33

Wicaksono K.P. *et al.* (2011) 'Insect As Biological Indicator From Protected To The Disturb Landscape In Central Java Indonesia'. *Journal Agrivita* 33 (1):75-84.

Widhiono, I., Sudiana, E. and Sucianto, E. T. (2016) 'Insect pollinator diversity along a habitat quality gradient on Mount Slamet, Central Java, Indonesia', *Biodiversitas*, 17(2), pp. 746–752. doi: 10.13057/biodiv/d170250.

Zaid, A. and de Wet, P. F. (2002) 'Botanical and systematic description of the date palm. In: Zaid A, Arias-Jiménez EJ, editors. Date Palm Cultivation. Rome, Italy: FAO Plant Production and Protection Paper 156'.

Zulkarnaen, R. N., Nisyawati and Witono, J. R. (2019) 'Population study and habitat preferences of pinang jawa (*Pinanga javana*) in Mt. Slamet, Central java, Indonesia', *Biodiversitas*, 20(3), pp. 712–718. doi: 10.13057/biodiv/d200314.