

DAFTAR KEPUSTAKAAN

- Abe, S.S., K. Ashida, K.N. Kamarudin, M.I. Kamil, I.M. Umami, and Hermansah. 2018. Micronutrient Availability as Affected by Land Use and Management in a Tropical Volcanic Mountain Area of West Sumatra, Indonesia. *Trop. Agr. Develop.* 62(3): 136-140.
- Abe, S.S., K. Ashida, M.I. Kamil, K. Tobisaka, and K.N. Kamarudin, Hermansah and I.M. Umami. 2020. Land Use and Management Effects on Volcanic Soils in West Sumatra, Indonesia. *Geoderma Regional* 22: e00308.
- Abouziena, H.F., O.M. Hafez, I.M. El-Metwally, S.D. Sharma, and M. Singh. 2008. Comparison of Weed Suppression and Mandarin Fruit Yield and Quality Obtained with Organic Mulches, Synthetic Mulches, Cultivation, and Glyphosate. *Hortscience* 43: 795-799.
- Addison, P., A.H. Baauw and G.A. Groenewald. 2013. An initial investigation of the effects of mulch layers on soil-dwelling arthropod assemblages in vineyards. *Afr. J. Enol.Vitic.* 34, 266.
- Aktar, M.W., D. Sengupta and A. Chodhury. 2009. Impact of Pesticides Use in Agriculture: Their Benefits and Hazards. *Interdisciplinary Toxicology* 2: 1-12.
- Altieri, M.A. 1991. How Can We Best Use Biodiversity in Agroecosystems? *Outlook in Agriculture.* 20: 15-23.
- Al-Assiuty Abdel-Naieem, I.M., M.A. Khalil, A.W.A. Ismail, N.V. Van Straalen, M.F. Ageba. 2014. Effects of Fungicides and Biofungicides on Population density and Community Structure of Soil Oribatid Mites. *Science of The Total Environment* 466-467: 412-420.
- Anderson, J.M., and J.S.I Ingram. 1993. *Tropical Soil Biology and Fertility; A Handbook of Methods*, Second edition. C.A.B International. UK.
- Angelsen, A., D. Kaimowitz. 2001. *Agricultural Technologies and Tropical Deforestation*. CABI, Wallingford, UK.
- Arnault, I. C. Fleurance, F. Vey, G.D. Fretay and J. Auger. 2013. Use of Alliaceae Residues to Control Soil Borne Pathogens. *Industrial Crops and Products* 49: 265-272.
- Bano, R. and Sharmila Roy. 2016. Extraction of Soil Microarthropods: A low cost Berlese-Tullgren Funnels Extractor. *International Journal of Fauna and Biological Studies* 3(2): 14-17.
- BBLSDP (Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian). 2014. *Tanah Andosol di Indonesia; karakteristik, potensi, kendala*

dan pengelolaannya untuk pertanian. Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian. Bogor.

- Barrios, E. 2007. Soil Biota, Ecosystem Services and Land Productivity. *Ecological Economics* 64: 269-285.
- Bedano, J.C., A. Dominguez, R. Arolfo. 2011. Assessment of Soil Biological Deradation using mesofauna. *Soil Tillage Res.* 117: 55-60.
- Borrer, D.J. Triplehorn, C.A. dan Johnson, N.F. 1992. *Pengenalan Pelajaran Serangga* Edisi Keenam. Terjemah oleh Soetiyono Partosoedjono. Yogyakarta: Gadjah Mada University Press.
- Bünemann, E.K., G.D. Schwenke, dan L. Van Zwieten. 2006. Impact of Agricultural Inputs on Soil Organisms-a review. *Australian Journal of Soil Research.* 2006. 44: 379-406.
- Breemen, N.V. dan P. Buurman. 2002. *Soil Formation* 2nd ed. Kluwer Academic Publishers. USA.
- Chacko Joy, Vadakepuram dan P. P. Chakravorty. 1991. Impact of Insecticides on Nontarget Microarthropod fauna in Agricultural Soil. *Ecotoxicology and Environmental Safety* 22: 8-16.
- Coleman, D.C., D.A. Crossley, and P.F. Hendrix, 2004. *Fundamentals of Soil Ecology*, 2nd Ed. Elsevier Academic Press, Amsterdam–Boston.
- Crossley, D.A., J.R. David, and P.F. Hendrix. 1989. The Importance of the Fauna in Agricultural Soils: Research Approaches and Perspectives. *Agriculture, Ecosystems and Environment* 27: 47-55.
- Eswaran, H., E. van den Berg, and P. Reich. 1993. Organic Carbon in Soils of The World. *Soil Science Society of American Journal* 57: 192-194.
- Fravel, D.R., K.L. Deahl, J.R. Stommel. 2005. Compatibility of The Biocontrol Fungus *Fusarium oxysporum* strain CS-20 with selected fungicides. *Biological Control* 34: 165-169.
- Fiantis, D., N. Hakim, and E. Van Ranst. 2005. Properties and Utilisation of Andisols in Indonesia. *JIFS*: 2; 29-37.
- Foth, H. D. 1990. *Fundamental of Soil Science* -8th ed. John Wiley & Sons. USA.
- Geisen, S., M.J.I. Briones., Huijie Gan., V. M. Behan-Pelletier., V.P. Friman., G. A. de Groot., S.E. Hannula, Z., L. Philippot., A.V. Tiunov., and D.H. Wall. 2019. A Methodological Framework to Embrace Soil Biodiversity. *Soil Biology and Biochemistry* 136: 107536.
- Giller, K.E., M.H. Beare, P. Lavelle, A.M.N. Izac, and M.J. Swift. 1997. Agricultural Intensification, Soil Biodiversity and Agroecosystem Function. *Applied Soil Ecology* 6:3-16.

- Goncalves, F., C. Nunes, C. Carlos, A. Lopez, I. Oliveira, A. Crespi, B. Teixeira, R. Pinto, C. A. Costa, L. Torres. 2020. Do Soil Management practices affect the activity density, diversity and Stability Arthropods in Vineyards? *Agri, Eco and Env* 294: 106863.
- Jänsch, S., G.K. Frampton, J. Römbke, P.J. Van den Brink, J.J. Scott-Fordsmand. 2006. Effects of pesticides on soil invertebrates in model ecosystem and field studies: a review and comparison with laboratory toxicity data. *Environ. Toxicol. Chem.* 25: 2490–2501.
- Kahindi, J.H.P., P. Woomer, George, T. Moreira, F.M.S. de, N.K. Karanja, and K.E. Giller. Agricultural Intensification, Soil Biodiversity and Ecosystem function: the role of nitrogen fixing bacterial. *Applied Soil Ecology* 6:55-76.
- Kamil, M.I. 2017. Keanekaragaman Mesofauna dan Makrofauna Tanah pada Beberapa Tipe Manajemen Lahan Dalam Hubungannya Dengan Sifat Kimia Tanah. (Skripsi). Padang. Fakultas Pertanian. Universitas Andalas. 62 hal.
- Lalitha, M., V.K. Thilagam, N. Balakrishnan and M. Mansour. 2010. Effect of Plastik Mulch on Soil Properties and Crop Growth – a Review. *Agricultural Reviews* 31(2): 145-149.
- Lavelle, P. 1997. Faunal Activities and Soil Processes: Adaptive Strategies That Determine Ecosystem Function. *Advances in Ecological. Research* Vol. 27 No.3: 93-132.
- Lavelle, P., A.V. Spain, 2001. *Soil Ecology*. Kluwer Academic Publishers, The Netherlands.
- Lavelle, P., D. Bignell, M. Lepage, V. Wolters, P. Roger, P. Ineson, O.W. Dhillion. 1997. Soil function in a changing world: The role of invertebrate ecosystem engineers. *European Journal of Soil Biology* 33(4): 159–193.
- Lavelle, P., E. Barros, E. Blanchart, G. Brown, T. Desjardins, L. Mariani, J.P. Rossi. 2001. Soil organic matter management in the tropics: why feeding the soil macro-fauna? *Nutr. Cycl. Agroecosyst.* 61:53-61.
- Magurran, A.E. 2004. *Measuring Biological Diversity*. Blackwell Publishing. Australia.
- Miñarro, M., E. Dapena. 2003. Effects of groundcover management on ground beetles (Coleoptera: Carabidae) in an apple orchard. *Appl. Soil Ecol.* 23: 111-117.
- Moura, E.G., Aguiar A.C.F., Piedade A.R., Rousseau G.X. 2015. Contribution of legume tree residues and macrofauna to the improvement of abiotic soil properties in the eastern Amazon. *Appl. Soil Ecol.* 86: 91-9.
- Okello-Oloya, T., A.V. Spain, R.D. John. 1985. Selected chemical characteristics of the mounds of two species of *Amitermes* (Isoptera, Termitinae) and their

- adjacent surface soil from Northeastern Australia. *Revue d'Écologie et de Biologie du Sol*. 22: 291-311.
- Pearsons, K.A. and J.F. Tooker. 2021. Preventive Insecticide use Affects Arthropod Decomposers and Decomposition in Field Crops. *Applied Soil Ecology* 157: 103757.
- Pekar, S. 2002. Differential Effects of Formaldehyde Concentration and Detergent on The Catching Efficiency of Surface-Active Arthropods by Pitfall Traps. *Pedobiologia* 46: 539-547.
- Ponge, J.F., G. Peres, M. Guernion, N.R. Camacho, J. Cortet, C. Pernin, C. Villenave, R. Chaussod, F.M. Laurent, A. Bispo, D. Cluzeau. 2013. The Impact of Agricultural Practices on Soil Biota: A Regional Study. *Soil Biology and Biochemistry*. Vol. 67: 271-284.
- Pop, V.V. and T. Postolache T. 1987. Giant earthworms build up vermic mountain rendzinas, In: *On Earthworms*. Ed. by A.B. Pagliai and P. Omodeo, Pp. 141-150, Mucchi, Italy.
- Rodgers, D., J. McPhee., P. Aird, R. Corkey. 2018. Soil Arthropod Responses to Controlled Traffic in Vegetable Production. *Soil and Tillage Res.* 180: 154-163.
- Ruiz N., P. Lavelle and J. Jimenez. 2008. *Soil Macrofauna Field Manual*. Food and Agriculture Organization of The United Nations (FAO). Roma.
- Ruthenberg, H. 1980. *Farming System in The Tropics*. Clarendon Press. Oxford. 313 hal.
- Schirmel, J., J. Albert, M.P. Kurtz, K. Munoz. 2018. Plasticulture Changes Soil Invertebrate Assemblages of Strawberry Fields and Decreases Diversity and Soil Microbial Activity. *Applied Soil Eco.* 124: 379-393.
- Shoji, S., M. Nanzyo, and R.A. Dahlgren. 1993. *Volcanic Ash Soils; Genesis, Properties, and Utilization*. Elsevier. Amsterdam. Pp 288.
- Stirling, G.R., 2008. The impact of farming systems on soil biology and soilborne diseases: examples from the Australian sugar and vegetable industries – the case for better integration of sugarcane and vegetable production and implications for future research. *Australas. Plant Pathol.* 37 (1).
- Susilo, F.X., A.M. Neutel, M. van Noordwijk, K. Hairiah, G. Brown, G.M. Swift. 2004. Soil biodiversity and food webs. In: van Noordwijk M, Cadisch G, Ong CK (Eds.), *Below-Ground Interactions in Tropical Agro-ecosystems*. CAB International, Wallingford, pp. 285-307.
- Six, J., E.T. Elliot., K. Paustian, and J.W. Doran. 1998. Aggregation and soil organic matter accumulation in cultivated and native grassland soils. *Soil Science Society of America Journal* 62: 1367-1377.

- Swift, M.J., W.O. Heal, and J.M. Anderson. 1979. *Decomposition in Terrestrial Ecosystems*. Blackwell Scientific, Oxford, UK.
- Tan, K.H. dan J. Van Schuylenborgh. 1998. *Andosol*. Program Studi Ilmu Tanah. Program Pasca Sarjana, Universitas Sumatera Utara, Medan 75 hlm.
- Triplehorn, C.A., N.F. Johnson. 2005. *Borror and DeLong's Introduction to the Study of Insects; Seventh Edition*. Thomson. Brooks/Cole. United States of America
- Vasconcellos, R.L.F., J.C. Segat, J.A. Bonfim, D. Baretta, E.J.B.N Cardoso. 2013. Soil Macrofauna as an Indicator of Soil Quality in undisturbed Riparian forest and recovering sites of different ages. *European Journal of Soil Biology* 58: 105-112.
- Vries, F.T., E. Thébault, M. Liiri, K. Birkhofer, M.A. Tsiafouli, L. Bjørnlund, H.B. Jørgensen, M.V. Brady, S. Christensen, P.C. Rüter, T. d'Hertefeldt, J. Frouz, K. Hedlund, L. Hemerik, W.H.G. Holck, S. Hotes, S.N. Mortimer, H. Setälä, S.P. Sgardelis, K. Uteseny, W.H. van der Putten, V. Wolters, R.D. Bardgett. 2013. Soil food web properties explain ecosystem services across European land use systems. *P Natl A Sci USA* 110: 14296-301.
- Wagg, C., S.F. Bender, F. Widmer, M.G.A. van der Heijden. 2014. Soil biodiversity and soil community composition determine ecosystem multifunctionality. *P Natl A Sci USA* 111: 5266-70.
- Wardle, D.A., K.S. Nicholson, K.I. Bonner, G.W. Yeates. 1999. Effects of Agricultural Intensification on Soil Associated Arthropod Population Dynamics, Community Structure, Diversity and Temporal Variability Over a seven-year Period. *Soil Biology and Biochemistry*, 31: 1691-1706.
- Zhang, G.S., X.B. Hu, X.X. Zhang, and J. Li. 2015. Effects of Plastik Mulch and Crop Rotation on Soil Physical Properties in Rain-Fed Vegetable Production in the Mid-Yunnan Plateau, China. *Soil Tillage Research* 145: 111-117.