



## DAFTAR PUSTAKA

- Almeida, D. S., Penn, C. J. and Rosolem, C. A. 2018. Assessment of Phosphorus Availability in Soil Cultivated with Ruzigrass. *Geoderma*. 312: 664-73.
- Anindyawati, T. 2010. Potensi Selulase dalam Mendegradasi Lignoselulosa Limbah Pertanian untuk Pupuk Organik. *Berita Selulosa* (2): 70-77.
- Balitsa. 2014. *Penggunaan Pestisida harus Berdasarkan pada Enam Tepat*. <http://balitsa.litbang.pertanian.go.id>. Diakses 24 April 2018.
- Barberon, M., Vermer, J. E. M., Bellis, D. D., Wang, P., Naseer, S., Andersen, T. G., Humbel, B. M., Nawrath, C., Takano, J., Salt, D. E., and Geldner, N. 2016. Adaptation of Root Function by Nutrient-Induced Plasticity of Endodermal Differentiation. *Cell*. 164:1-13.
- Biyantoro, D., Subagiono, R., dan Sumarsono, M. 2006. Watak Senyawa Humik yang Diekstrak dari Gambut dan Andisol dengan Metil Isobutil Keton (MIBK). *Prosiding PPI-PDIPTN*. 195-204.
- Bollag, J. M., Myers, C. J., and Minard, R. D. 1992. Biological and Chemical Interactions of Pesticides with Soil Organic Matter. *The Science of The Total Environment*. (123/124): 205 – 217.
- Börnke, F. and Rocksch, T. 2018. Thigmomorphogenesis-Control of Plant Growth by Mechanical Stimulation. *Scientia Horticulturae*. 1-10.
- BPT. 2005. *Analisis Kimia Tanah, Tanaman, Air, dan Pupuk*. Bogor: Balai Penelitian Tanah.
- BPTP. 2013. *Budidaya Selada*. <http://yogya.litbang.pertanian.go.id>. Diakses 18 Mei 2017.
- Byrt, C. S., Munns, R., Burton, R. A., Gillham, M., and Wege, S. 2018. Root Cell Wall Solutions for Crop Plants in Saline Soils. *Plant Science*. 269: 47-55.
- Cernadas, R. A and Benedetti, C. E. 2009. Role of Auxin and Gibberellin in Citrus Canker Development and in The Transcriptional Control of Cell-Wall Remodeling Genes Modulated by *Xanthomonas axonopodis* pv. *citri*. *Plant Science*. 177. 190-195.
- Chen, J., Saleem, M., Wang, C., Liang, W., and Zhang, Q. 2018. Individual and Combined Effect of Herbicide Tribuneron Methyl and Fungicide Tebuconazole on Soil Earthworm *Eisenia fetida*. *Nature Scientific Reports*. 8 (2967): 1-9.
- Chen, M., Xu, P., Zeng, G., Yang, C., Huang, D., and Zhang, J. 2015. Bioremediation of Soils Contaminated with Polycyclic Aromatic Hydrocarbon, Petroleum, Pesticides, Chlorophenols, and Heavy Metals by Composting: Application, Microbes, and Future Research Needs. *Biotechnology Advances*. 22: 745-755.
- Chen, W., Teng, Y., Li, Z., Liu, W., Ren, W., Luo, Y., and Christie, P. 2018. Mechanism by Which Organic Fertilizer and Effective Microbes Mitigate Peanut Continous Cropping Yield Constraints in A Red Soil of South China. *Applied Soil Ecology*. 1-12.
- Chesworth, W. 2008. *Encyclopedia of Soil Science*. Netherlands: Springer.
- Cotching, W.E. 2018. Organic Matter in The Agricultural Soils of Tasmania, Australia. *Geoderma*. 312: 170-182.



- Djuarnani, N., Kristian, dan Budi, S. S. 2005. *Cara Cepat Membuat Kompos*. Jakarta: Agromedia Pustaka.
- Djukri dan P. Dradjat. 2004. Penambahan Bahan Organik pada Tanah Bermasalah dan Efeknya terhadap Pertumbuhan Sawi (*Brassica juncea L.*). *Jurnal Pendidikan Matematika dan Sains*. Yogyakarta: Jurusan Pendidikan Biologi FMIPA UNY.
- Enstone, D. E., Peterson, C. A., and Ma, F. 2003. Root Endodermis and Exodermis: Structure, Function, and Responses to the Environment. *Journal Plant Growth Regulation*. 21: 335-351.
- Estevez, M. A., Periago, E. L., Carballo, E. M., Gandara, J. S., Mejuto, J. C., and Rio, L.G. 2008. The Mobility and Degradation of Pesticides in Soils and The Pollution of Groundwater Resources. *Agriculture Ecosystem and Environment*. 123: 247-260.
- Evert, R. F. 2006. *Esau's Plant Anatomy : Meristems, Cells, and Tissues of The Plant Body-Their Structure, Function, and Development*. Hoboken, New Jersey: John Wiley & Sons, Inc.
- Fahmi, A., Bostang, R., and Benito, H. P. 2009. Kelarutan Fosfat dan Ferro pada Tanah Sulfat Masam yang Diberi Bahan Organik Jerami Padi. *J.Tanah Trop*. 14 (2): 119 – 125.
- Fosket, D. E. 1994. *Plant Growth and Development*. Irvine, California: Academic Press.
- Frouz, J. 2017. Effects of Soil Macro and Mesofauna on Litter Decomposition and Soil Organic Matter Stabilization. *Geoderma*. 08 (39): 1-12.
- Garbeva, P. J. A., Veen, V. and Elsas, J. D. V. 2004. Diversity in Soil: Selection of Microbial Populations by Plant and Soil Type and Implications for Disease Suppressiveness. *Journal Annual Review of Phytopathology*. (42): 243-270.
- Gardner, F. P., Pearce, R. B., and Mitchell, R. I. 1991. *Fisiologi Tanaman Budidaya* (Alih bahasa: H. Susilo). Jakarta: UI Press.
- Graham, I. J and Bryce. 1980. *The Use of Pesticides in Crop Production with Special Reference to Their Behaviour in Soils*. United Kingdom: Department of Insecticides and Fungicides.
- Haridjaja, O., Baskoro, D. P. T. dan Setianingsih, M. 2013. Perbedaan Nilai Kada Air Kapasitas Lapang Berdasarkan Metode Alhricks, Drainase Bebas, dan Pressure Plate pada Berbagai Tekstur Tanah dan Hubungannya dengan Pertumbuhan Bunga Matahari (*Helianthus annuus L.*). *Jurnal Tanah Lingkungan* (2) : 52-59.
- Haryanto, Suhartini, T., Rahayu, E., dan Sunarjono, H. 2007. *Sawi dan Selada*. Jakarta: Penerbit Swadaya.
- Hermawati, E., Wiryanto, dan Solichatun. 2005. Fitoremediasi Limbah Detergen Menggunakan Kayu Apu (*Pistia stratiotes L.*) dan Genjer (*Limnocharis flava L.*). *Journal of Biological Science*. 7(2): 115-124.
- IFDC. 1998. *Fertilizer Manual*. Netherlands: Kluwer Academic Publisher.
- Indrayani, N. 2006. Bioremediasi Lahan Tercemar Profenofos Secara Ex-Situ dengan Cara Pengomposan. *Thesis*: IPB.



- Jallow, M. F. A., Awadh, D. G., Albaho, M. S., Devi, Y., and Thomas, B. M. 2017. Pesticide Risk Behaviours and Factors Influencing Pesticide Use Among Farmers in Kuwait. *Science of the Total Environment*. 574: 490-498.
- Jauhiainen, J., Hooijer, A., and Page, S. E. 2012. Carbon dioxide Emissions From An Acacia Plantation on Peatland Sumatra, Indonesia. *Biogeosciences*. 9: 617-630.
- Jiang, Y., Ding, X., Zhang, D., Deng, Q., Yu, C. L., Zhou, S., and Hui, D. 2017. Soil Salinity Increases The Tolerance of Excessive Sulfur Fumigation Stress in Tomato Plants. *Environmental and Experimental Botany*. 133: 70-77.
- Karlsruhe, A. P., Buschiazzo, D. E., Rosa, S., Schlichting, E., Stahr, K., and Stuttgart. 1992. Phosphate Distribution in Soils of The Central Argentinian Pampa. *Catena*. 19: 135-145.
- Kastono, D. 2005. Tanggapan Pertumbuhan dan Hasil Kedelai Hitam terhadap Penggunaan Pupuk Organik dan Biopestisida Gulma Siam (*Chromolaena adorata*). *Ilmu Pertanian*. 12 (2) : 103-116.
- Khan, A., Khan, S., Khan, M. A., Qamar, Z., Waqas, M. 2015. The Uptake and Bioaccumulation of Heavy Metals by Food Plants, Their Effects on Plant Nutrient, and Associated Health Risk. *Environ Sci Pollut Res*. 22: 13772-13799.
- Karlsruhe, A. P., Buschiazzo, D. E., Rosa, S., Schlichting, E., Stahr, K., and Stuttgart. 1992. Phosphate Distribution in Soils of The Central Argentinian Pampa. *Catena*. 19: 135-145.
- Khaledian, Y., Kiani, F., Ebrahimi, S., Brevik, E. C., and Aitkenhead-Peterson, J. 2016. Assessment and monitoring of soil degradation during land use change using multivariate analysis. *Land Degradation and Development*. 1-14.
- Kim, M. J., Moon, Y., Tou, J.C., Mou, B., and Waterland, N. L. 2016. Nutritional Value, Bioactive Compounds and Health Benefits of Lettuce (*Lactuca sativa L.*). *Journal of Food Composition and Analysis*. 49: 19-34.
- Kucerik, J., Tokarski, D., Demyan, M. S., Merbach, I., and Siewert, C. 2018. Linking Soil Organic Matter Thermal Stability with Contents of Clay, Bound Water, Organic Carbon, and Nitrogen. *Geoderma*. 316: 38-46.
- Kumar, A. and Verma, J. P. 2018. Does Plant – Microbe Interaction Confer Stress Tolerance in Plants. *Microbial Research*. 207: 41-52.
- Kusumandaru, W., Hermiyanto, B., dan Winarso, S. 2014. Analisis Indeks Kualitas Tanah di Lahan Pertanian Tembakau Kasturi Berdasarkan Sifat Kimianya dan Hubungannya dengan Produktivitas Tembakau Kasturi di Kabupaten Jember. *Jurnal Berkala Ilmiah Pertanian*. 1(1): 1-6.
- Kwiatkowska, J. dan Malina. 2017. Functions of Organic Matter in Polluted Soils: The Effect of Organic Amendments on Phytoavailability of Heavy Metals. *Applied Soil Ecology*. 1-4.
- Liang, J. and He, J.. 2018. Protective Role of Anthocyanins in Plants Under Low Nitrogen Stress. *Biochemical and Biophysical Research Communications*. 1-8.
- Liu, H., Fu, Y., Hu, D., Yu, J., and Liu, H. 2018. Effect of Green, Yellow and Purple Radiation on Biomass, Photosynthesis, Morphology, and Soluble Sugar



- Content of Leafy Lettuce Via Spectral Wavebands Knock Out. *Scientia Horticulturae*. 236: 10-17.
- Liu, Y., Zang, H., Ge, T., Bai, J., Lu, S., Zhou, P., Peng, P., Shibistova, O., Zhu, Z., and Wu, J., Guggenberger, G. 2018. Intensive Fertilization (N, P, K, Ca, and S) Decreases Organic Matter Decomposition in Paddy Soil. *Elsevier* : 1-7.
- LPPT. 2015. *Pengukuran Kadar N dan P*. Yogyakarta: UGM.
- Lux, A., Martinka, M., Vaculik, M., & White, J.P. 2010. Root Responses to Cadmium in the Rhizosphere. *Journal of Experimental Botany*. 64 (2) : 21-37.
- Lv, T., Carvalho, P.N., Casas, M.E., Bollmann, U.E., Arias, C.A., Brix, H., and Bester, K. 2017. Enantioselective Uptake, Translocation and Degradation of The Chiral Pesticides Tebuconazole and Imazalil by *Phragmites australis*. *Environmental Pollution*. 229: 362-370.
- Lyu, J., Park, J., Pandey, L.K., Choi, S., Lee, H., Saeger, J.D., Depuydt, S., and Han, T. 2018. Testing The Toxicity of Metals, Phenol, Effluents, and Receiving Waters by Root Elongation in *Lactuca sativa L.* *Ecotoxicology and Environmental Safety*. 149: 225-232.
- Miller, C. E., L. M. Turk, and H. D. Foth. 1985. *Fundamentals of Soil Science*. Third Ed. Newyork: John Willey & Sons. Inc.
- Minardi, S. and Harieni, S. 2005. *Pengaruh Kualitas Bahan Organik dan Pupuk P terhadap Ketersediaan dan Serapan P Jagung Manis (Zea mays saccharata Strut)* pada Andisol Tawangmangu. <http://download.portalgaruda.org>. Diakses pada 7 April 2018.
- Mora, V., Baigorri, R., Bacaicoa, E., Zamarreno, A. M., Garcia, J. M., and Mina. 2012. Tha Humic-Acid Induced Changes in The Root Concentration of Nitric Oxide, IAA, and Ethylene Do Not Explain The Changes in Root Architecture Caused by Humic Acid in Cucumber. *Environmental and Experimental Botany*. 76: 24-32.
- Munira, S., Farenhorst, A., and Akinremi, W. 2018. Phosphate and Glyphosate Sorption in Soils Following Long Term Phosphate Applications. *Geoderma*. 313: 146-153.
- Notohadiprawiro, T. 2006. Persoalan Tanah Masam dalam Pembangunan Pertanian di Indonesia. *Repro*: Ilmu Tanah UGM.
- Notohadiprawiro, T., Soekodarmojo, S., dan Sukana, E. 2006. Pengelolaan Kesuburan Tanah dan Peningkatan Efisiensi Pemupukan. *Repro*: Ilmu Tanah UGM.
- Noviarini, W & Ermavitalini, D. 2015. Analisa Kerusakan Jaringan Akar Lamun *Thalassia hemprichii* yang Terpapar Logam Berat Kadmium (Cd). *Jurnal Sains dan Seni ITS*. 4 (2): 2337- 3520.
- Nugroho, Y. A, et al. 2013. Kajian Penambahan Dosis Beberapa Pupuk Hijau dan Pengaruhnya terhadap Pertumbuhan Selada (*Lactuca sativa L.*) *J.Exp.Life Sci.* 3(2) : 45-53.
- Oh, E., Seo, P.J., and Kim, J. 2017. Signaling Peptides and Receptors Coordinating Plant Root Development. *Trends in Plant Science*. 1-15.
- Oktavia, N.D., Moelyaningrum, A.D., and Pujiati, R.S. 2015. Penggunaan Pestisida dan Kandungan Residu pada Tanah dan Buah Semangka (*Citrullus vulgaris*,



- S.) (Studi di Kelompok Tani Subur Jaya Desa Mojosari Kecamatan Puger Kabupaten Jember. <http://repository.unej.ac.id/>. Diakses pada 8 Juni 2018.
- Patti, P.S., Kaya, E., and Silahooy, C. H. 2013. Analisis Status Nitrogen Tanah dalam Kaitannya dengan Serapan N oleh Tanaman Padi Sawah di Desa Waimital, Kecamatan Kairaty, Kabupaten Seram Bagian Barat. *Agrologia*. 2(1): 51-58.
- Pedersen, H. J., P. Kudsk, and Helweg, A. 1995. Adsorption and ED50 Values of Five Soil-Applied Herbicides. *Journal of Pesticide Science*. (44): 131-136.
- Peraturan Menteri Pertanian No.01/Permentan/OT.140/1/2007.
- Peraturan Menteri Pertanian No.24/Permentan/SR.140/4/2011.
- Permatasari, E. 2007. Bioindikator Pencemaran Insektisida Organofosfat pada Tanah Pertanian. *Tugas Akhir*. Bandung : ITB.
- Pittarello, M., Busato, J. G., Carletti, P., Zenetti, L. V., Silva, J. D., and Dobbss, L. B. 2018. Effects of Different Humic Substances Concentrations on Root Anatomy and Cd Accumulation in Seedlings of *Avicennia germinans* (black mangrove). *Marine Pollution Bulletin*. 130: 113-122.
- Poirier, V., Roumet, C., and Munson, A. D. The Root of The Matter: Linking Root Traits and Soil Organic Matter Stabilization Processes. *Soil Biology and Biochemistry*. 120: 246-259.
- Pracaya. 2007. *Bertanam Sayur Organik di Kebun, Pot, dan Polybag*. Jakarta: Penebar Swadaya.
- Pradina, E. 2012. *Aplikasi Metode GC-MS untuk Penetapan Kadar Profenofos pada Buah Stroberi (Fragaria sp) Setelah Pencucian*. <http://eprints.ums.ac.id/>. Diakses 1 Agustus 2017.
- Pranata, A.S. 2004. *Pupuk Organik Cair*. Aplikasi dan Manfaatnya. Jakarta: Agromedia Pustaka.
- Pujisiswanto, H dan D. Pangaribuan. 2008. Pengaruh Dosis Kompos Pupuk Kandang Sapi terhadap Pertumbuhan dan Produksi Buah Tomat. *Prosiding*. 7: 11-19.
- Rabot, E., Wiesmeier, M., Schluter, S., and Vogel, H. J. 2018. Soil Structure as An Indicator of Soil Function. *Geoderma*. 314: 122-137.
- Ramirez Perez, L. J., Diaz, A. B. M., Mendoza, A. B., Romenus, K. D., Morales, S. G., Maldonado, A. J. 2018. Dynamic Modeling of Cucumber Crop Growth and Uptake of N, P, and K Under Greenhouse Conditions. *Scientia Horticultura*. 234: 250-260.
- Ravansari, R. and Lemke, L. D. 2018. Portable X-ray Fluorescence Trace Metal Measurement in Organic Rich Soils: pXRF Response as A Function of Organic Matter Fraction. *Geoderma*. 319: 175-184.
- Ravi, S., Sharratt, B. S., Li, J., Olshevski, S., Meng, Z., and Zhang, J. 2016. Particulate Matter Emissions from Biochar-Amended Soils as a Potential Tradeoff to The Negative Emission Potential. *Nature* (6) : 1-7.
- Rosmarkam, A and N. V. Yuwono. 2002. *Jurnal Ilmu Kesuburan Tanah*. Yogyakarta: Penerbit Kanisius.
- Rawtani, D., Khatri, N., Tyagi, S., and Pandey, G. 2018. Nanotechnology Based Recent Approaches for Sensing and Remediation of Pesticides. *Journal of Environmental Management*. 206: 749-762.



- Ren, C., Wang, T., Xu, Y., Dieng, J., Zhao, F., Yang, G., Han, X., Feng, Y., and Ren, G. 2018. Differential Soil Microbial Community Responses to The Linkage of Soil Organic Carbon Fractions with Respiration Across Land Use Changes. *Forest Ecology and Management*. 409: 170-178.
- Roberts, K. 2007. *Handbook of Plant Science*. England: John Wiley & Sons Ltd.
- Roidah, I.S. 2013. Manfaat Penggunaan Pupuk Organik untuk Kesuburan Tanah. *Jurnal Universitas Tulungagung Bonorowo*. 1(1): 30-41.
- Rubatzky, V. E dan M. Yamaguchi. 1998. *Sayuran Dunia 2 Prinsip Produksi dan Gizi*. Bandung: ITB Press.
- Rukmana, R. 1994. *Bertanam Selada dan Andewi*. Yogyakarta: Kanisius.
- Salisbury, F.B and Ross, C.W. 1995. *Fisiologi Tumbuhan*. (Alih bahasa: Diah R Lukman & Sumaryono). Bandung: Penerbit ITB.
- Sanches, F. G. 1998. Soil Organic Matter and Soil Productivity: Searching for The Missing Link. *Springer*. 543-556.
- Sanchez, O.J., Ospina, D.A., and Montoya, S. 2017. Compost Supplementation with Nutrients and Microorganisms in Composting Process. *Waste Management*. 69: 136-153.
- Schuster, E and D. Schroder. 1990. Side Effect of Sequentially Applied Pesticides on Nontarget Soil Microorganism: Field Experiments. *Journal of Soil Biology and Biochemistry*. 22(3): 367-373.
- Selian, A. R. 2014. *Analisa Kadar Unsur Hara Kalium (K) dari Tanah Perkebunan Kelapa Sawit Bengkalis Riau Secara Spektrofotometri Serapan Atom (SSA)*. [www.repository.usu.ac.id](http://www.repository.usu.ac.id/). Diakses pada 15 Agustus 2017.
- Setiyo, Y., Gunam, I.B.W., Gunadnya, I.B.P., dan Tika, I.W. 2011. *Bioremediasi In Situ Lahan Tercemar Pestisida oleh Mikroba yang ada pada Kompos*. <https://www.researchgate.net>. Diakses pada 28 Juli 2017.
- Setyorini, D., Saraswati, R., dan Anwar, E.K. 2006. *Kompos*. <https://s3.amazonaws.com/academia.edu>. Diakses pada 7 April 2018.
- Shahid, M., Dumat, C., Khalid, S., Schreck, E., Xiong, T., and Niazi, N. K. 2016. Foliar Heavy Metal Uptake, Toxicity and Detoxification in Plants: A Comparison of Foliar and Root Metal Uptake. *Journal of Hazardous Materials*. 11.063.
- Shao and Zhang. 2017. Non Target Effects on Soil Microbial Parameters of The Synthetic Pesticide Carbendazim With The Biopesticides Cantharidin and Norcantharidin. *Nature Scientific Reports*. 7 (5521): 1-12.
- Shi, L., Zhang, H., Liu, T., Mao, P., Zhang, W., Shao, Y., and Fu, S. 2018. An Increase in Precipitation Exacerbates Negative Effects of Nitrogen Deposition on Soil Cations and Soil Microbial Communities in A Temperate Forest. *Environmental Pollution*. 235: 293-301.
- Silva, M. E. F., Lemos, L. T., Bastos, M. M. S. M., Nunes, O.C., Cunha, A.C., and Queda. 2013. Recovery of Humic-Like Substance from Low Quality Composts. *Bioresource Technology*. 128: 624-632.
- Sitompul, S.M. & B. Guritno. 1995. *Analisis Pertumbuhan Tanaman*. Yogyakarta: Universitas Gadjah Mada Press.
- SNI (Standar Nasional Indonesia) 19-7030. 2004. *Spesifikasi Kompos dari Sampah Organik Domestik*.



- Song, X.C., et al. 2010. Effects of N, P, and K Fertilizer Application on Cotton Growing in Saline Soil in Yellow River Delta. *Acta Agron Sin.* 36 (10): 1698-1706.
- Soprano, A. S., Smetana, J. H. C., and Benedetti, C. E. 2017. Regulation of tRNA Biogenesis in Plants and Its Link to Plant Growth and Response to Pathogens. *BBAGRM*. 1-27.
- Spark, K.M., and Swift, R. S. Effect of Soil Composition and Dissolved Organic Matter on Pesticide Sorption. *The Scince of The Environment*. 298: 147-161.
- Srivastava, L. M. 2002. *Plant Growth and Development*. Burnaby, British Columbia, Canada : Academic Press.
- Sriwijaya, B. 2013. Penggunaan Pupuk Organik Hasil Pengomposan Limbah Pengolahan Kopi dengan Menggunakan Probiotik Urin Sapi pada Budidaya Tanaman Selada. *Jurnal of Agricultural Sains*. 4 (6): 50-70.
- Susila, A. D. 2006. *Panduan Budidaya Tanaman Sayuran*. Bogor. Bogor: Departemen Agronomi dan Hortikultura, Fakultas Pertanian IPB.
- Sutanto, S. D., Ekosari, dan Victoria. 2014. Pengaruh POC Rebung terhadap Pertumbuhan dan Produksi Tanaman Selada (*Lactuca sativa L.*). *Journal student UNY*. 3(7): 1-13.
- Sutanto, R. 2005. *Dasar – Dasar Ilmu Tanah*. Yogyakarta: Penerbit Kanisius.
- Sutikno. 2016. *Buku Praktikum Mikroteknik Tumbuhan*. Yogyakarta: UGM.
- Suuciati, F., Anwar, S., Dadang, Aviantara, D.B., dan Widayastuti, R. 2016. Pengaruh Pemberian Pestisida terhadap Transformasi Asam Fenolat serta Produksi CO<sub>2</sub> dan CH<sub>4</sub> pada Tanah Gambut. *Jurnal Tanah dan Iklim*. 4(1): 11-23.
- Syahri. 2017. *Penggunaan Pestisida Secara Tepat dan Bijaksana*. <http://sumsel.litbang.pertanian.go.id>. Diakses 24 April 2018.
- Tahir, I. 2008. *Pembuatan Kompos*. [www.ugm.ac.id](http://www.ugm.ac.id). Diakses 1 Agustus 2017.
- Taiwo, A. M., Gbadebo, A. M., Oyedepo, J. A., Ojekunle, Z. O., Alo, O. M., Oyeniran, A. A., Onalaja, O. J., Ogunjimi, D., and Taiwo, O. T. 2016. Bioremediation of Industrially Contaminated Soil Using Compost and Plant Technology. *Journal of Hazardous Materials*. 304: 166-172.
- Ulusoy, Y., Tekin, Y., Tümsavas, Z., and Mouazen, A. M. 2016. Prediction of Soil Cation Exchange Capacity Using Visible and Near Infrared Spectroscopy. *Biosystems Engineering*. 152: 79-93.
- USU. 2012. *Prosedur Analisis Contoh Tanah*. [www.usu.ac.id](http://www.usu.ac.id). Diakses pada 16 Agustus 2017.
- Umaternate, G. R., Abidjulu, J., dan Wuntu, A. D. 2014. *Uji Metode Olsen dan Bray dalam Menganalisis Kandungan Phosphat tersedia pada Tanah Sawah di Desa Konarom Barat Kecamatan Dumoga Utara*. <http://ejournal.unstrat.ac.id>. Diakses pada 15 Agustus 2017.
- Utami, S. N. H. and S. Handayani. 2003. Chemical Properties in Organic and Conventional Farming System. *Jurnal Ilmu Pertanian*. 10(2): 63-69.
- Vezza, M., Llanes, A., Travaglia, C., Agostini, E., and Talano, M. E. 2017. Arsenic Stress Effects on Root Water Absorption in Soybean Plants: Physiological and Morphological Aspects. *Plant Physiology and Biochemistry*. 11.020.



- Vezzani, F.M., Anderson, C., Meenken, E., Gillespie, R., Peterson, M., and Beare, M. H. 2018. The Importance of Plants Development and Maintenance of Soil Structure, Microbial Communities, and Ecosystem Functions. *Soil & Tillage Research.* 175: 139-149.
- Wang, L and Liu, D. 2018. Functions and Regulation of Phosphate Starvation Induced Secreted Acid Phosphatases in Higher Plants. *Plant Science.* 271: 108-116.
- Zhang, A., Luo, W., Sun, J., xiao, H., & Liu, W. 2015. Distribution and Uptake Pathways of Organochlorine Pesticides in Greenhouse and Conventional Vegeables. *Science and The Total Environtment.* 505: 1142-1147.
- Zhou, Y., Xia, X., Yu, G., Wang, J., Wu, J., Wang, M., Yang, Y., Shi, K., Yu, Y., Chen, Z., Gan, J., and Yu, J. 2015. Brassinosteroids Play A Critical Role in The Regulation of Pesticide Metabolism in Crop Plant. *Nature Scientific Reports.* 5 (9018): 1-7.
- Zulkarnain. 2013. *Budidaya Sayuran Tropis.* Jakarta: Bumi Aksara