

DAFTAR PUSTAKA

- Adhi, W. I P.G & Alihamsyah. 1998. Pengembangan lahan pasang surut: Potensi, prospek dan kendala serta teknologi pengelolaannya untuk pertanian. Prosiding Seminar Nasional dan Pertemuan Tahunan Komisariat Daerah Himpunan Ilmu Tanah.
- Afzal, A., Irfan.A., A. Butt, H. U. Rehman & S.M.A.Basra. 2012. Alleviation of salt stress in fine aromatic Rice by *seed priming*. Australian Journal of Crop Science 6 : 1401-1407.
- Alnopri, M. Taufik, D.W. Ganefianti, Prasetyo & Mukhtasar. 2004. Modifikasi rancangan dialil untuk mendapatkan Kopi arabika unggul berdasarkan aktivitas nitrat reduktase. Jurnal Akta Agrosia 7 : 47- 51.
- Amazallag. G N., H.R. Lerner & A. Poljakoff-Mayber. 1990 Induction of increased salt tolerance in *Sorghum bicolor* by NaCl pretreatment. J. Exp. Bot. 41, 29–34.
- Amira. M.S & A. Qados. 2011. Mechanism of nanosilicon-mediated alleviation of salinity stress in Faba Bean (*Vicia faba* L.) plants. American Journal of Experimental Agriculture 7 : 78-95.
- Ariani, M. 2003. Arah, kendala dan pentingnya diversifikasi konsumsi pangan di Indonesia. In *Forum Penelitian Agro Ekonomi* 2 : 99-112.
- Arnon. 1949. Copper enzymes in isolated chloroplast, poliphenol oxidase in *Beta vulgaris*. Plant Physiology 24 : 1-15.
- Badan Meteorologi, Klimatologi dan Geofisika, Yogyakarta. 2017. Data iklim
- Balittanah. 2009. Analisis kimia tanah, tanaman, air dan pupuk. Balai penelitian tanah, Bogor.
- Bates, L.S., R.P, Waldren & L.D Teare. 1974. Rapid determination of free proline for water stress studies. Plant Physiology 39 : 205-207.
- Bonilla, P., Hirai, T.H Naito & M. Tsuchiya. 1995. Physiological response to salinity in rice plant. Induced salt-tolerance by low NaCl pretreatment. Japan Journal of Crop Science. 64:266-272.
- Brady,N.C & R.W. Ray. 2008. The nature and properties of soil. Pearson Prentice Hall, Ohio.
- Brocklehurst, P.A., J. Dearman & R.L.K. Drew. 1984. Effects of osmotic *priming* on seed germination and seedling growth in leek. Scien. Hort. 24 : 201-210.
- Cano E. A., M.C. Bolarin., F. Perez-Alfocea & M. Caro. 1991. Effect of NaCl priming on increased salt tolerance in tomato. J. Hort. Sci. 66, 621–628.

- Carillo P., G.A. Maria., P. Giovanni., F. Amodio & W. Pasqualina. 2011. Salinity Stress and Salt Tolerance, Abiotic Stress in Plants - Mechanisms and Adaptations. InTech, Eropa.
- Cha-um, S., Y. Pokasombat & C. Kirdmanee. 2011. Remediation of salt-affected soil by gypsum and farmyard manure – importance for the production of Jasmine rice. Australian Journal of Crop Science 4 : 458 – 465.
- Cayuela, E., Estan, M.T., M. Parra, M. Caro & M.C Bolarin. NaCl pre-treatment at the seedling stage enhances fruit yield of Tomato plants irrigated with salt water. Plant and Soil. 230 : 231-238.
- Chen. K & R. Arora. 2013. *Priming* memory invokes seed stress-tolerance. Environmental and Experimental Botany 94 : 33-45.
- Cicek N & H. Cakirlar. 2002. The Effect of salinity on some physiological parameters in two Maize cultivars. Bulg. Journal of Plant Physiology 28: 66- 74.
- Damanik, M.M.B., B.E. Hasibuan, Fauzi, Sarifuddin & H. Hanum. 2010. Kesuburan Tanah dan Pemupukan. Universitas Sumatera Utara Press, Medan.
- Delfine, S., A. Alvino, M. Zacchini & F. Loreto. 1998. Consequences of salt stress on conductance to CO₂ diffusion, rubisco characteristic dan anatomy of spinach leaves. Australian Journal of Plant Physiology 25: 395– 402.
- Djafar. Z. R. 2002. Pengembangan dan pengelolaan lahan rawa untuk ketahanan pangan yang berkelanjutan. Pelatihan Nasional Manajemen daerah Rawa Untuk Pembangunan Berkelanjutan, Palembang.
- Dobermann. A & T. Fairhurst. 2000. Rice : Nutrient disorder and nutrient management. Potash & Phosphate Institute/Potash & Phosphate Institute of Canada.
- Ehab, A.B. 2016. *Seed priming* to alleviate salinity stress in germinating seeds. Journal of Plant Physiology. 192 : 38-46.
- El Keblawy, A & A. Al-Rawai. 2005. Effect of salinity, temperature and light on germination of invasive *Prosopis juliflora* (Sw.) Journal Arid Environment 61 : 555-565.
- FAO. 2005. 20 Hal untuk diketahui tentang dampak air laut pada lahan pertanian di Propinsi NAD, Panduan Lapangan FAO. Diakses pada tanggal 1 November 2016.
- Farooq. M., S.M.A. Basra, A. Wahid & H.U. Rehman H. 2009. Exogenously applied nitric oxide enhances the drought tolerance in fine grain aromatic Rice (*Oryza sativa* L.). J Agron Crop Sci. 195 : 254–61.
- Fatimah, S., 2010. Pengujian toleransi genotipe padi (*Oryza sativa* L.) terhadap salinitas pada fase perkecambahan. Departemen Agronomi dan Hortikultura, Fakultas Pertanian, Institut Pertanian Bogor, Bogor [Skripsi].

- Fitter, A.H & R.K.M. Hay. 1981. Environmental physiology of plants. Academic Press, London.
- Fu, J.R., X.H. Lu, R.Z. Chen, B.Z. Zhang, Z.S. Liu, Z.S. Li & D.Y. Cai. 1988. Osmoconditioning of peanut (*Arachis hypogaea* L.) seeds with PEG to improve vigor and some biochemical activities. Seed Sci. Technol. 16:197-212.
- Gardner F.P., R.B. Pearce & R.L Mitchell. 2008. Fisiologi Tanaman Budidaya. Universitas Indonesia press, Jakarta.
- Goldsworthy, P.R. & N.M. Fisher. 1992. Fisiologi Tanaman Budidaya Tropik. Gadjah Mada University Press, Yogyakarta.
- Grattan, S.R. & C.M. Grieve. 1999. Mineral nutrient acquisition and tanggapane by plants grown in salin environment. Dalam M. Pessarakli (Ed). Handbook of Plant and Crop Stress. Marcel Dekker, Inc. New York.
- Grattan, S.R. 2005. Irrigation water salinity and crop production. University of California Agriculture and Natural Resources in partnership with Natural Resources Conservation Service, California.
- Gregoria, G.B., D. Senadhira & R. D. Mendoza. 1997. Screening rice for salinity tolerance, IRRI Discussion paper Series No. 22. International Rice Research Institute, Los Banos. Laguna , Philippines.
- Grist, D. H. 1959. Rice, Formerly agricultural economist, Longsmans, Green and Co.Ltd, London.
- Hajlaoui H., M. Denden & M. Bouslama. 2007. Study of the intraspecific variability of salt stress tolerance of chickpea (*Cicer arietinum* L.) at the germination stage. Tropicultura 25: 168–173.
- Hakim, N., M. Y. Nyakpa., A. M. Lubis., S. G. Nugroho., M. A. Diha., Go Ban Hong & H. H. Bailey. 1986. Dasar-Dasar Ilmu Tanah. Penerbit Universitas Lampung, Lampung.
- Hamdia, M. A & M.A.K. Shaddad. 2010. Salt Tolerance of Crops Plants. Journal of Stress Physiology & Biochemistry 3 : 44-90.
- Hamed, A.N. 2013. The effects of *seed priming* techniques in improving germination and earlyseedling growth of *Aeluropus macrostachys*. International Journal of Advanced Biological and Biomedical Research. 1 : 86-95.
- Hanudin, E. 2000. Pedoman analisis kimia tanah. Jurusan Tanah Fakultas Pertanian UGM, Yogyakarta.
- Harjadi, S. S & S. Yahya. 1988. Fisiologi Stress Lingkungan.. PAU-IPB, Bogor

- Hasanah, N.A.U. 2016. Pertumbuhan dan hasil tiga kultivar padi (*Oryza sativa* L.) pada beberapa tingkat salinitas di lahan pasir pantai. Universitas Gadjah Mada [TESIS].
- Hasegawa, P.M., R.A. Bressan, J.K. Zhu & H.J. Bohnert. 2000. Plant cellular and molecular responses to high salinity. *Rev. Plant Physiology. Plant Molecular Biology*. 51: 463-499.
- Hopper N.W., J.R.Overholt & J.R.Martin.1979. Effect of cultivar, temperature and seed size on the germination and emergence of Soy Beans (*Glycine max* (L.) Merr.). *Annals of Botany*. 44: 301-308.
- IRRI (International Rice Research Institute). 1967. Annual Report for 1967. Los Banos, Laguna. Philippines.
- James, R.A., B. Carol., S.B. Caitlin & M. Rana. 2012. Major genes for Na⁺ exclusion, *Nax1* and *Nax2* (wheat *HKT1;4* and *HKT1;5*), decrease Na⁺ accumulation in bread wheat leaves under saline and waterlogged conditions. *Journal of Experimental Botany*. 62 : 2939–2947.
- Jones, M.M., N.C. Turner & C.B. Osmond. 1981. Mechanism of Drought Resistance. Dalam L.G. Paleg dan D. Aspinall (ed). *The Physiology and Biochemistry of Drought Resistance in Plant*. Academic press, New York.
- Kachout, S., A.B. Mansoura., K. Jaffel., J.C. Leclerc., M.N. Rejeb, & Ouerghi, Z., 2009. The effect of salinity on the growth of the halophyte *Atriplex hortensis* (chenopodiaceae). *Applied Ecology and Environmental Research* 7 : 319-332.
- Kaddah, M.T & J.D. Rhoades. 1976. Salt and Water Balance in Imperial Valley California. *Soil Science Society of America Journal* 40 : 93-100..
- Kartasapoetra, G.A & M.M. Kartasapoetra dan Sutedjo. 1987. *Teknologi Konservasi Tanah dan Air*. PT Bina Aksara, Jakarta.
- Kementrian Pertanian. 2015. Modul pendampingan mahasiswa dalam upaya khusus peningkatan produksi Padi, Jagung dan Kedelai. Badan Penyuluhan dan Pengembangan Sumberdaya Manusia Pertanian, Jakarta.
- Kiswanto, J.H., B. Purwanta & Wijayanto. 2008. *Teknologi Budidaya Kelapa Sawit*. Balai Besar Pengkajian dan Pengembangan Teknologi Pertanian, Badan Penelitian dan Pengembangan Pertanian.
- Krisnawati, A & M.M. Adie. 2009. Kendali genetik dan karakter penentu toleransi Kedelai terhadap salinitas. *Iptek Tanaman Pangan* 4 : 222-237.
- Lakitan. B. 1993. *Dasar-dasar fisiologi tumbuhan*. Raja Grafindo Persada, Jakarta.

- Lenis, J. M., M. Eilersieck, D. G. Blevins, D. A. Sleper, H. T. Nguyen, D. Dunn, J. D. Lee & J. G. Shannon. 2011. Differences in ion accumulation and salt tolerance among *Glycine* accessions. *Journal Agronomy Crop Science* 197 : 302–310.
- Levitt, J. 1980. *Responses of Plant to Environmental Stresses* 2nd ed. New York Academic press, New York.
- Li, R., P. Guo, M. Baum, S. Grando & S. Ceccarelli. 2006. Evaluation of Chlorophyll Content and Fluorescence Parameters as Indicators of Drought Tolerance in Barley. *Agricultural Sciences in China* 5 : 751-757.
- Lutts, S., Kinet, J.M & J.Bouharmont. 1995. Changes in plant response to NaCl during development of rice (*Oryza sativus* L.) varieties differing in salinity resistance. *J. Exp. Bot.* 46: 1 843-1 852.
- Maas, E.V & G.J. Hoffman. 1997. Crop salt tolerance. Current-assesment. *ASCE Journal of Irrigation Drainage Division* 103 : 113-134.
- Manurung, S.O & M. Ismunadji. 1988. *Morfologi dan Fisiologi Padi-Buku 1*. Badan Penelitian dan Pengembangan Pertanian, Bogor.
- Marschner, H. 1998. *Mineral nutrition of higher plants*, 2nd ed. Academic Press. London.
- Masaru, O., Y. Hayashi, A. Nakashima, A. Hamada, A. Tanaka, T. Nakamura & T. Hayakawa. 2002. Introduction of a Na⁺/H⁺ antiporter gene from *Atriplex gmelini* confers salt tolerance to rice. *Elsevier Science* 532: 279-282.
- Melsted, S.W & T.R. Peck. 1972. *The principles of soil testing*. Soil Sci.Soc of America Inc. Madison, Wisconsin.
- Mengel, K & E.A. Kirkby. 1987. *Principles of plant nutrition*. International Potash Institute, Switzerland.
- Elhaak, M.A., M.A. Zayed & M. Ahmed. 2015. Ompact of low salinity with sodium chloride on germination, growth and medicinal compounds of *Solanum nigrum* Linn. *Int. J. Curr. Microbiol. App. Sci* 4 : 660-674.
- Mulyani, S. 2006. *Anatomi Tumbuhan*. Gadjah Mada University Press, Yogyakarta.
- Munns. R & M. Tester. 2008. *Mechanisms of salinity tolerance*. Australian Center for Plant Fuctional Genomics, Adelaide.
- Poedjiadi, A & F.M. Supriyanti. 2009. *Dasar-dasar biokimia*. Penerbit Universitas Indonesia, Jakarta.
- Purwono, L & Purnamawati. 2007. *Budidaya tanaman pangan*. Penerbit Agromedia. Jakarta.

- Putra, A.A.G. 2010. Pengaruh jarak tanam dan dosis pupuk kandang ayam terhadap pertumbuhan dan hasil bawang merah (*Allium ascalonicum* L.) di lahan kering beriklim basah. *Jurnal GaneCswara*, 4(1): 22-28.
- Rehman, H.U., I. Afzal, M. Farooq, T. Aziz & S.M.A. Basra. 2011. *Seed priming* with CaCl₂ improves the stand establishment, yield and quality attributes in direct seeded Rice (*Oryza sativa*) *International Journal of Agriculture and Biology* 13 : 786-790.
- Rehman, H.U., I. Afzal, M. Farooq, T. Aziz & S.M.A. Basra. 2012. Improving temperature stress resistance in spring maize by *seed priming*. *Proceedings of 3 International Conference Frontiers in Agriculture Cheonansi Korea*.
- Reisdorph, N.A & K.L. Koster. 1999. Progressive loss of desiccation tolerance in germinating Pea (*Pisum sativum*) seeds. *Physiol. Plant.* 105, 266–271.
- Rhoades, J.D., Chanduvi, F & Lesch. 1999. Soil Salinity assessment: methods and interpretations of electrical conductivity [paper]. Rome (IT): FAO. 57.
- Ritung. 2004. Petunjuk teknis pengamatan tanah. Balai Penelitian Tanah. Pusat Penelitian Dan Pengembangan Tanah Dan Agroklimat. Badan Penelitian Dan Pengembangan Pertanian, Jakarta.
- Rosmawati, D.Y. 2008. Pengaruh tinggi genangan terhadap pertumbuhan gulma dan produksi Padi Hibrida (*Oryza sativa* L.). [Skripsi]. Fak. Pertanian IPB, Bogor.
- Saha, P., P. Chatterjee & A.K. Biswas. 2010. NaCl pretreatment alleviates salt stress by enhancement of antioxidant defense system and osmolyte accumulation in mungbean (*Vigna radiata* L. Wilczek). *Indian Journal of Experimental Biology* 48 : 593-600.
- Sasmitamihardja, D. 1990. Dasar-dasar Fisiologi Tumbuhan. FMIPA ITB. Bandung.
- Salisbury, F. B. 1991. *Plant physiology*. Wadsworth Publishing Company, California.
- Salisbury, J.W & Ross. 1995. *Fisiologi Tumbuhan Jilid I*. ITB Press, Bandung.
- Siswoputranto. 1976. *Komoditi Ekspor Indonesia*. Gramedia, Jakarta.
- Sitompul S.M & B. Guritno. *Analisis pertumbuhan tanaman*. Gadjah Mada University Press, Yogyakarta.
- Sivritepe, H.O., N. Sivitrepe, A. Eris & E. Turhan. 2005. The effects of NaCl Pre-treatment on salt tolerance of melons grown under long term Salinity. *Scientia Horticulturae* 106 : 568-581.
- Sipayung, R. 2003. *Stres Garam dan Mekanisme Toleransi Tanaman*. USU, Medan.

- Soemartono, Bahrinsamad & Hardjono. 1981. Bercocok Tanam Padi. Yasaguna, Jakarta.
- Sposito, G. 2008. The chemistry of soils. Oxford University Press, New York.
- Staples, R.C & G.H. Toenniessen. 1984. Salinity tolerance in plants : Strategies For Crop Improvment. Wiley-interscience, New York.
- Suastika, I.W., N. Basaruddin & T. Tumarlan. 1997. Budidaya padi sawah di lahan pasang surut. Proyek Penelitian Pengembangan Pertanian Rawa Terpadu-ISDP Badan Penelitian dan Pengembangan Pertanian.
- Sulaiman. F., M.Hasmeda., R.A. Suwignyo & A. Wijaya. 2016. *Priming* benih padi (*Oryza sativa* L.) dengan Zn untuk meningkatkan vigor bibit pada cekaman terendam. Jurnal Agronomi Indonesia 44 : 8-15.
- Sulistiyowati, E., S. Sumartini & Abdurrahman. 2010. Toleransi 60 aksesi kapas terhadap cekaman salinitas pada fase vegetative. Jurnal Littri 6 : 20-26.
- Suriadikarta, D.A. & Sutriadi, M.T., 2007. Jenis jenis lahan berpotensi untuk pengembangan pertanian di lahan rawa. *Jurnal Litbang Pertanian*, 26(3), p.115
- Surowinoto, S. 1982. Budidaya tanaman padi. Jurusan Agronomi Faperta IPB, Bogor.
- Suwignyo, R.A., Renih & Mardiyanto. 2011. Pengaruh perlakuan salinitas awal rendah terhadap pertumbuhan dan toleransi salinitas tanaman jagung. Jurnal Agrivigor 10 (1).
- Turan, M.A., A.H.A. Elkarim., N. Taban & S.Taban. 2009. Effect of salt stress on growth, stomatal resistance, proline and chlorophyll concentrations on maize plant. African Journal of Agricultural Research, 4 : 893-897.
- Utama, M. Z. H., Haryoko, W., Munir & R. Sunadi. 2009. Penapisan varietas padi toleran salinitas pada lahan rawa di Kabupaten Pesisir Selatan. Jurnal Agronomi Indonesia 37 : 101-106.
- Varier, A., A.K Vari & M. Dadlani. 2010. The sub cellular basis of *seed priming*. Curr.Sci. 99 : 450–456.
- Yoshida, S. 1951. Fundamental of Crop Science. International Rice Research Institute, Los Banos.
- Zeng, L. & M.C. Shannon. 2000. Salinity effects on seedling growth and yield components of rice. Crop Science. 40 : 996–1003.