

DAFTAR PUSTAKA

- Abid, M., J. Scheffran, U.A. Schneider, & M. Ashfaq. 2015. Farmers' perceptions of and adaptation strategies to climate change and their determinants: the case of Punjab province, Pakistan. *Earth System Dynamics*. 6 (1): 225–243. DOI:10.5194/esd-6-225-2015.
- Abid, M., U. A. Schneider, & J. Scheffran. 2016. Adaptation to climate change and its impacts on food productivity and crop income: perspectives of farmers in rural Pakistan. *Journal of Rural Studies*. 47: 254–266. DOI:10.1016/j.jrurstud.2016.08.005.
- Abidoye, B.O, P. Kulukurasriya & R. Mendelshon. South-east asia farmer perception of climate change. *Climate Change Economics*, Vol. 8, No. 3. DOI:10.1142/S2010007817400061
- Adiyoga, W. 2018. Farmers perceptions on climate change in lowland and highland vegetable roduction centers of South Sulawesi, Indonesia. *IOP Conference Series: Earth and Environmental Science*. 122. 012001. DOI:10.1088/1755-1315/122/1/012001
- Adiyoga, W. & L. Lukman. 2018. Persepsi dan adaptasi petani sayuran Terhadap perubahan iklim di Sulawesi Selatan. *Jurnal Hortikultura*. 27 (2): 279. DOI:10.21082/jhort.v27n2.2017.p279-296.
- Adiyoga, W. & R. S. Basuki. 2018. Persepsi petani sayuran tentang dampak perubahan pklim di Sulawesi Selatan. *Jurnal Hortikultura*. 28 (1): 133-146
- Adger, W.N., S. Huq & M. Hulme. 2003. Adaptation to climate change in the developing world. *Progress in Development Studies*. 3 (3): 179–195. DOI:10.1191/1464993403ps060oa.
- Ajuang, C.O., P. O. Abuom, E. K. Bosire, G. O Dida, & D. N. Anyona. 2016. Determinants of climate change awareness level in upper Nyakach Division, Kisumu County, Kenya. *SpringerPlus*. 5 (1): 1015–1035. DOI:10.1186/s40064-016-2699-y.
- Arikunto, S. 2002. *Prosedur penelitian suatu pendekatan praktik*. PT Rineka Cipta. Jakarta.
- Alam, A.R.S., M.A. Aryadi, D. Biyatmono & T. Satriadi. 2012. Persepsi dan makna perubahan iklim terhadap usaha pertanian: studi Kasus di Desa Sungai Rangas Tengah Kabupaten Banjar. *EnviroSciencieae*. 8: 35–44.
- Alauddin, M. & M. A. R. Sarker. 2014. Climate change and farm-level adaptation decisions and strategies in drought-prone and groundwater-depleted areas of Bangladesh: an empirical investigation. *Ecological Economics*. 106: 204–213. DOI:10.1016/j.ecolecon.2014.07.025.
- Ali, A. & O. Erenstein. 2017. Assessing farmer use of climate change adaptation practices and impacts on food security and poverty in Pakistan. *Climate Risk Management*. 16: 183–194. DOI:10.1016/j.crm.2016.12.001.
- Antriyandarti, E. 2012. *Ekonomi mikro untuk ilmu pertanian*. Nuha Litera. Yogyakarta.

- Arini, M. 1993. Kajian pola konsumsi dan permintaan pangan serta proyeksi kebutuhan pangan pada Repelita V di tiga provinsi di Indonesia. Tesis. Pascasarjana Institut Pertanian Bogor. Bogor.
- Arunrat, N., C. Wang, N. Pumijumnong, S. Sereenonchai, & W. Cai. 2017. Farmers' intention and decision to adapt to climate change: A case study in the Yom and Nan basins, Phichit province of Thailand. *Journal of Cleaner Production*. 143: 672–685. DOI:10.1016/j.jclepro.2016.12.058.
- Ayanlade, A, M. Radeny, J. F. Morton. 2017. Comparing smallholder farmers' perception of climate change with meteorological data: A case study from southwestern Nigeria. *Weather and Climate Extremes*. 15: 24-33. DOI: 10.1016/j.wace.2016.12.001.
- Ayyogari, K., P. Sidhya, & M.K. Pandit. 2014. Impact of Climate Change on Vegetable Cultivation - A Review. *International Journal of Agriculture, Environment and Biotechnology*. 7 (1): 145–155. DOI:10.5958/j.2230-732X.7.1.020.
- Badan Pusat Statistik Kab. Boyolali. 2018. Kecamatan Cepogo dalam angka 2017. Badan Pusat Statistik Kab. Boyolali. Boyolali.
- Badan Pusat Statistik Kab. Boyolali. 2019. Kecamatan Cepogo dalam angka 2018. Badan Pusat Statistik Kab. Boyolali. Boyolali.
- Badan Pusat Statistik D.I. Yogyakarta. 2019. D.I.Yogyakarta dalam angka 2018. Badan Pusat Statistik D.I.Yogyakarta. Yogyakarta.
- Badan Pusat Statistik Jawa Tengah. 2019. Jawa Tengah dalam angka 2018. Badan Pusat Statistik Jawa Tengah. Semarang.
- Badan Pusat Statistik Kab. Magelang. 2018. Kecamatan Ngablak dalam angka 2017. Badan Pusat Statistik Kab. Magelang. Mungkid.
- Badan Pusat Statistik Kab. Magelang. 2019. Kecamatan Ngablak dalam angka 2018. Badan Pusat Statistik Kab. Magelang. Mungkid.
- Badan Pusat Statistik Kab. Semarang. 2018. Kecamatan Getasan dalam angka 2017. Badan Pusat Statistik Kab. Semarang. Unggaran.
- Badan Pusat Statistik Kab. Semarang. 2019. Kecamatan Getasan dalam angka 2018. Badan Pusat Statistik Kab. Semarang. Unggaran.
- Badan Pusat Statistik Kab. Sleman. 2018. Kecamatan Cangkringan dalam angka 2018. Badan Pusat Statistik Kab. Sleman. Sleman.
- Badan Pusat Statistik Kab. Sleman. 2019. Kecamatan Cangkringan dalam angka 2018. Badan Pusat Statistik Kab. Sleman. Sleman.
- Badan Meteorologi, Klimatologi dan Geofisika. 2019. Perubahan Iklim: suhu. <https://www.bmkg.go.id/iklim/?p=tren-suhu> <https://www.bmkg.go.id/iklim/?p=tren-suhu> (diakses pada 12 Januari 2020)
- Banerjee. R. R. 2014. Farmers' perception of climate change, impact and adaptation strategies: a case study of four villages in the semi-arid regions of India. *Natural Hazard*. DOI 10.1007/s11069-014-1466-z.
- Barrucand, M.G., C. Giraldo Vieira & P.O Canziani. 2017. Climate change and its

impacts: perception and adaptation in rural areas of Manizales, Colombia. *Climate and Development*. 9 (5): 415–427. DOI:10.1080/17565529.2016.1167661.

- Below, T.B., K.D. Mutabazi, D. Kirschke, C. Franke, S. Sieber, R. Siebert, & KTscherning. 2012. Can farmers' adaptation to climate change be explained by socio-economic household-level variables? *Global Environmental Change*. 22(1): 223–235. DOI:10.1016/j.gloenvcha.2011.11.012.
- Berhe, M., D. Hoag, G. Tesfay, T. Tadesse, S. Oniki, M. Kagatsume & C. M. H. Keske. 2017. The effects of adaptation to climate change on income of households in rural Ethiopia. *Pastoralism: Research, Policy and Practice*. 7 (12): 1–15. DOI:10.1186/s13570-017-0084-2.
- Bewket, W. 2012. Climate change perceptions and adaptive responses of smallholder farmers in central highlands of Ethiopia. *International Journal of Environmental Studies*. 69 (3): 507–523. DOI:10.1080/00207233.2012.683328.
- Brown, P. R, V. V. Tuan, D. K. Nhan, et al. (2018) Influence of livelihoods on climate change adaptation for smallholder farmers in the Mekong Delta Vietnam. *International Journal of Agricultural Sustainability* 16 (3). Taylor & Francis: 255–71. doi:10.1080/14735903.2018.1472858.
- Bryan, E., C. Ringler, B. Okoba, C. Roncoli, S. Silvestri & M. Herrero. 2013. Adapting agriculture to climate change in Kenya: household strategies and determinants. *Journal of Environmental Management*. 114: 26–35. DOI:10.1016/j.jenvman.2012.10.036.
- Chiew, F. & L. Siriwardena. 2005. *tren User Guide*. Australia: CRC for Catchment Hydrology.
- Chrysoulakis, N., M. Proedrou, & C. Cartalis. 2001. Variations and trends in annual and seasonal means of precipitable water in greece as deduced from radiosonde measurements. *Toxicol and Environ. Chem.*, Vol. 84, No. 1–4 pp: 1-6.
- Chukwukere, A.O., U. Udodirim, R. Okezie, & J. Sulaiman. 2011. Climate variability and change: perceptions and adaptations in subsistence agriculture. *Indian Journal of Agricultural Research*. 45 (4): 275–282.
- Connolly-Boutin, L., B. Smit & L.C. B. Smit. 2016. Climate change, food security, and livelihoods in sub-Saharan Africa. *Regional Environmental Change*. 16 (2): 385–399. DOI:10.1007/s10113-015-0761-x.
- Dachlan, U. 2014. *Panduan lengkap struktural equation modelling*. Lentera ilmu. Semarang.
- Damayanti, V. L & R. Khoirudin. 2016. Analisis faktor-faktor yang mempengaruhi ketahanan pangan rumah tangga petani (studi kasus: Desa Timbulharjo, Sewon, Bantul). *Jurnal ekonomi dan studi pembangunan*. 17 (2): 89-96. DOI: 10.18196/jesp.17.2.3735.
- Dariah, A dan M. P. Yufdi. 2017. Pertanian organik sebagai upaya mitigasi emisi gas rumah kaca dan peningkatan adaptasi terhadap perubahan iklim. In: E. Passandaran, M. Syakir, R. Heriawan, M. P. Yufdy (Eds.) *Memperkuat Kemampuan Wilayah Menghadapi Perubahan Iklim*. IAARD Press. Jakarta

- Darnhofer, I., J. Fairweather & H. Moller. 2010. Assessing a farm's sustainability: insights from resilience thinking. *International Journal of Agricultural Sustainability*. 8 (3): 186–198. DOI:10.3763/ijas.2010.0480.
- Darwanto, D. 2005. Ketahanan pangan berbasis produksi dan kesejahteraan petani. *Ilmu Pertanian*. 12 (2): 152–164.
- Debertin, D.L. 1986. *Agricultural production economics*. Macmillan Publishing Company. New York.
- Debela, N., C. Mohammed, K. Bridle, R. Corkrey & D. McNeil. 2015. Perception of climate change and its impact by smallholders in pastoral/agropastoral systems of Borana, South Ethiopia. *SpringerPlus*. 4: 236. DOI 10.1186/s40064-015-1012-9.
- Deressa, T.T., R.M. Hasan, C. Ringler, T. Alemu, & M. Yusuf. 2009. Determinants of farmers' choice of adaptation methods to climate change in the Nile Basin of Ethiopia. *Global Environmental Change*. 19: 248–255. DOI:10.1016/j.gloenvcha.2009.01.002.
- Deressa, T.T., R.M. Hasan, & C. Ringler. 2011. Perception of and adaptation to climate change by farmers in the Nile basin of Ethiopia. *Journal of Agricultural Science*. 249: 23–31. DOI: 10.1017/S0021859610000687.
- Direktoral Jenderal Hortikultura Kementerian Pertanian. 2015. Sekolah lapang iklim hortikultura - antisipasi dampak perubahan iklim. <<http://tabloidsinartani.com/content/read/sekolah-lapang-iklim-hortikultura-antisipasi-dampak-perubahan-iklim/>>. (diakses 4 Januari 2018).
- Di Falco, S., M. Veronesi & M. Yesuf. 2011. Does adaptation to climate change provide food security? A micro-perspective from Ethiopia. *American Journal of Agricultural Economics*. 93 (3): 829–846. DOI:10.1093/ajae/aar006.
- Douxchamps, S., M. T. van Wijk, S. Silvestri, et al. 2016. Linking agricultural adaptation strategies, food security and vulnerability: evidence from West Africa. *Regional Environmental Change*. 16 (5): 1305–1317. DOI:10.1007/s10113-015-0838-6.
- Elum, Z. A., D. M. Modise, A. Marr. 2017. Climate Risk Management Farmer's perception of climate change and responsive strategies in three selected provinces of South Africa. *Climate Risk Management* 16: 246–257. DOI: 10.1016/j.crm.2016.11.001.
- Esham, M. & C. Garforth. 2013. Agricultural adaptation to climate change: insights from a farming community in Sri Lanka. *Mitigation and Adaptation Strategies for Global Change*. 18 (1): 535–549. DOI:10.1007/s11027-012-9374-6.
- Etemadi, M. & E. Karami. 2016. Organic fig growers' adaptation and vulnerability to drought. *Journal of Arid Environments*. 124: 142–149. DOI:10.1016/j.jaridenv.2015.08.003.
- FAO. 2016. Resilience index measurement and analysis model. Food and Agriculture Organization of the United Nations. Rome.
- Fatuase, A.I. 2016. Climate change adaptation: a panacea for food security in Ondo State, Nigeria. *Theoretical and Applied Climatology*. 129 (3–4): 939–947. DOI:10.1007/s00704-016-1825-7.

- Ferdinand, A. 2006. Structural equation modelling. Universitas Dipanegoro. Semarang.
- Festiani, R.A. 2011. Dampak perubahan iklim terhadap pendapatan dan faktor-faktor penentu adaptasi petani terhadap perubahan iklim: studi kasus di Desa Kemukten, kecamatan Kersana, kabupaten Brebes. Tesis. Institut Pertanian Bogor. Bogor.
- Folke, C., C. R. Carpenter, B. Walker, M. Scheffer, T. Chapin & J. Rockström. 2010. Resilience thinking: Integrating resilience, adaptability and transformability. *Ecology and Society*. 15 (4): 1–20. DOI:10.5751/ES-03610-150420.
- Folke, C., S. Carpenter, T. Elmqvist, L. Gunderson, C. S. Holling & B. Walker. 2002. Resilience and sustainable development: building adaptive capacity in a world of transformations. *Ambio*. 31 (5): 437–440.
- Fosu-Mensah, B.Y., P. L. G. Vlek, D. S. MacCarthy. 2012. Farmer' perception and adaptation to climate change: A case study of Sekyedumase district in Ghana. *Environment, Development and Sustainability*. 14 (4): 495–505. DOI:10.1007/s10668-012-9339-7.
- Gandure, S., S. Walker, & J. J. Botha. 2013. Farmers' perceptions of adaptation to climate change and water stress in a South African rural community. *Environmental Development*. 5: 39–53. DOI:10.1016/j.envdev.2012.11.004.
- Gebrehiwot, T. & A. van der Veen 2013. Farm level adaptation to climate change: The case of farmer's in the Ethiopian Highlands. *Environmental Management*. 52(1): 29–44. DOI:10.1007/s00267-013-0039-3.
- Gerungan, W. 1991. Psikologi sosial. PT Eresco. Bandung.
- Ghozali, I. & D. Ratmono. 2014. Analisis multivariate dan ekonometrika: teori, konsep dan aplikasi dengan Eviews. Badan Penerbit Universitas Diponegoro. Semarang
- Gilarso, T. 2003. Pengantar ilmu ekonomi mikro. Kanisius. Yogyakarta.
- Gujarati, D. 2016. Ekonometrika dasar: Alih bahasa oleh Sumarbo Zain. Erlangga. Jakarta.
- Goh, K.M., 2011. Greater mitigation of climate change by organic than conventional agriculture: A review. *Biol. Agric. Hortic*. 27: 205–230. <https://doi.org/10.1080/01448765.2011.9756648>.
- Gomez, N. 2015. Climate change and adaptation on selected crops in Southern Philippines. *International Journal of Climate Change Strategies and Management*. 7 (3): 290–305. DOI:10.1108/IJCCSM-03-2013-0014.
- Gornall, J., R. Betts, E. Burke, R. Clark, J. Camp, K. Willett, & A. Wiltshire. 2010. Implications of climate change for agricultural productivity in the early twenty-first century. *Biological Sciences*. 365 (1554): 2973–2989. DOI:10.1098/rstb.2010.0158.
- Gravener, F.J & L. Forzano. 2016. Research Methods for the Behavioral Sciences. Cengage Learning. USA
- Hanani, N. 2009. Ketahanan pangan. <http://nuhil.lecture.ub.ac.id/files/2009/03/2-pengertian-ketahanan-pangan-2.pdf>. (diakses pada 8 November 2017).

- Haryono & I. Las. 2011. Strategi mitigasi dan adaptasi pertanian terhadap dampak perubahan iklim global. in: Prosiding Seminar Nasional "Era Baru Pembangunan Pertanian: Strategi Mengatasi Masalah Pangan, Bioenergi dan Perubahan Iklim Pusat Sosial Ekonomi Kementerian Pertanian, Bogor. pp. 1–10.
- Hasan, K. & L. Kumar. 2019. Comparison between meteorological data and farmer perceptions of climate change and vulnerability in relation to adaptation. *Journal of Environmental Management* 237: 54-62. DOI: 10.1016/j.jenvman.2019.02.028.
- Hermawan, A. 2005. Penelitian bisnis: paradigma kuantitatif. PT.Grasindo. Jakarta.
- Hisali, E., P. Birungi, F & Buyinza. 2011. Adaptation to climate change in Uganda: Evidence from micro level data. *Global Environmental Change*. 21: 1245–126. DOI: <http://dx.doi.org/10.1016/j.gloenvcha.2011.07.005>
- Holling, C.S. 1973. Resilience and stability of ecological system. *Annual Review of Ecology and Systematics*. 4: 1–3.
- Ichdayanti, L.I. 2014. Respon petani dan adaptasinya terhadap perubahan iklim. *Jurnal Agribisnis*. 8 (2): 155–170.
- IFOAM 2009. Organic agriculture a guide to climate change and food security. International Federation of Organic Agriculture Movements. Germany.
- IFOAM. 2012. Organic agriculture: A strategy for climate change adaptation. International Federation of Organic Agriculture Movements. Germany.
- Ilham, N. & Bonar. 2007. Penggunaan pangsa pengeluaran pangan sebagai indikator komposit ketahanan pangan. *SOCA (Socio-Economic of Agriculture and Agribusiness)*. 7(3): 1–22.
- IPCC. 2007. Climate Change 2007: Synthesis report. Contribution of working groups I, II and III to the Fourth assessment report of the intergovernmental panel on climate change [Core writing team, Pachauri, R.K and Reisinger, A. (eds.)]. IPCC. Geneva, Switzerland, 104 pp.
- Irham, O. Saito, H. Mohri, G. Wirakusuma, F. Rohmah, H. Perwitasari. 2018. Traditional farmers' adaptation strategies on climate change of different environmental conditions in Yogyakarta Province, Indonesia, in: Takeuchi, K., Saito, O., Matsuda, H., Mohan, G. (Eds.), *Resilient Asia: Fusion of Traditional and Modern Systems for a Sustainable Future*. Springer imprint, Tokyo.
- Ismiasih 2014. Konsumsi, diversifikasi dan ketahanan pangan tingkat rumah tangga di Daerah Istimewa Yogyakarta. Disertasi. Universitas Gadjah Mada. Yogyakarta.
- Jacobi, J., M. Schneider, M. Pillco Mariscal, S. Huber, S. Weidmann, P. Bottazzi & S. Rist. 2015. Farm resilience in organic and nonorganic cocoa farming systems in Alto Beni, Bolivia. *Agroecology and Sustainable Food Systems*. 39(7): 798–823. DOI: 10.1080/21683565.2015.1039158.
- Jin, J., X. Wang & Y. Gao. 2015. Gender differences in farmers' responses to climate change adaptation in Yongqiao District, China. *Science of the Total Environment*. 538: 942–948. DOI: 10.1016/j.scitotenv.2015.07.027.
- Kassie, B.T., H. Hegsdijk, R. Rotter, H. Kahiluoto, S. Asseng & V. M. Ittersum. 2013.

Adapting to climate variability and change: experiences from cereal-based farming in the Central Rift and Kobo Valleys. *Environmental Management*. 52: 1115–1131. DOI:10.1007/s00267-013-0145-2.

Khanal, U., C. Wilson, V. Hoang, & B. Lee. 2018. Farmers adaptation to climate change , its determinants and impacts on rice yield in Nepal. *Ecological Economics*. 144: 139–147. DOI:10.1016/j.ecolecon.2017.08.006.

Klein, R.J.T., R. J. Nicholls & F. Thomalla. 2003. Resilience to natural hazards: How useful is this concept? *Environmental Hazards*. 5 (1): 35–45. DOI:10.1016/j.hazards.2004.02.001.

Kibue, G.W., X. Liu, J. Zheng. 2016. Farmers' perceptions of climate variability and factors influencing adaptation: Evidence from Anhui and Jiangsu, China. *Environ. Manage.* 57, 976–986. <https://doi.org/10.1007/s00267-016-0661-y>.

Kurniawati, F. 2012. Pengetahuan dan adaptasi petani sayuran terhadap perubahan iklim. Tesis. Universitas Padjajaran. Bandung.

Lal, S.S. 2014. Climate change resilience and vulnerability of farmers in Nepal. Dissertation. Hiroshima University. Jepang.

Las, I., A. Pramudia, E. Runtunuwu & P. Setyanto. 2011. Antisipasi perubahan iklim dalam mengamankan produksi beras nasional. *Pengembangan Inovasi Pertanian*. 4(1): 76–86.

Lasco, R. D, M. Laya, O. E. Christine, M. D. Habito. 2016. Smallholder farmers ' perceptions of climate change and the roles of trees and agroforestry in climate risk adaptation: evidence from Bohol, Philippines. *Agroforestry Systems*. 90:521-540. DOI: 10.1007/s10457-015-9874-y.

Le Dang, H. 2014. Adaptation to climate change: the attitude and behaviour of rice farmers in the Mekong Delta, Vietnam. Disertasi. University of Adelaide. Australia.

Le Dang, H., E. Li, I. Nuberg & J. Bruwer, J. 2013. Understanding farmers' adaptation intention to climate change: A structural equation modelling study in the Mekong Delta, Vietnam. *Environmental Science & Policy*. 41: 11–22. DOI:10.1016/j.envsci.2014.04.002.

Lei, Y., Yue, Y., Zhou, H., Yin, W., Wang, J., Yue, Y., Zhou, H., & Yin, W. 2014. Rethinking the relationships of vulnerability, resilience, and adaptation from a disaster risk perspective. *Natural Hazards*. 70 (1): 609–627. DOI:10.1007/s11069-013-0831-7.

Limantol, A.M., B. E. Keith, B.E., B.A. Azabre, & B. Lennartz. 2016. Farmers' perception and adaptation practice to climate variability and change: a case study of the Veia catchment in Ghana. *SpringerPlus*. 5 (1): 1–38. DOI:10.1186/s40064-016-2433-9.

Marseva, A.D., E. I. K. Putri, & A. Ismail. 2016. Analisis faktor resiliensi rumah tangga petani dalam menghadap variabilitas iklim. *Jurnal Ekonomi dan Pembangunan Indonesia*. 17 (1): 15–27.

Makate, C., M. Makate, N. Mango, N.dan Siziba. 2007. Smallholder farmers' perceptions on climate change and the use of sustainable agricultural practices in the Chinyanja Triangle, Southern Africa. – *Social Science* 6: 1-14.

<https://doi.org/10.3390/socsci6010030>.

- Maxwell, S. & T. R. Frankenberger, T.R. 1992. Household food security: concepts, indicators, measurements: a technical review. 293.
- Maxwell, D., C. Levin, M. Armar-Klemesu, M. Ruel, S. Morris & C. Ahiadeke. 2000. Urban livelihoods and food nutrition security in Greater Accra, Ghana. Research Report - International Food Policy Research Institute(112): xiv + 172 pp.
- Maxwell, D.G. 1996. Measuring food insecurity: the frequency and severity of “coping strategies.” *Food Policy*. 21(3): 291–303. DOI:10.1016/0306-9192(96)00005-X.
- Mertz, O., C. Mbow, A. Reenberg & A. Diouf. 2009. Farmers’ perceptions of climate change and agricultural adaptation strategies in Rural Sahel. *Environmental Management*. 43(5): 804–816. DOI:10.1007/s00267-008-9197-0.
- Meyers, L.S; G. Gamst & A.J. Guarino. 2006. *Applied Multivariate Research* SAGE Publication. London
- Milambo, K.H. 2013. Farmers’ adaptations to rainfall related climate variability risks and their implications on food security in the semi-arid Sikonge District, Tanzania. Thesis. Sokoine University. Morogoro.
- Milestad, R., & I. Darnhofer. 2003. Building farm resilience: the prospects and challenges of organic farming. – *Journal of Sustainable Agriculture* 23: 81-97. https://doi.org/10.1300/J064v22n03_09.
- Miller, W.P. & T. Piechota. 2008. Regional analysis of trend and step changes observed in hydroclimatic variables around the Colorado River Basin. *Journal of Hydrometeorology* Volume 9: 1020-1034.
- Mittenzwei, K., T.Persson, M.Höglind, & Kværnø, S. 2017. Combined effects of climate change and policy uncertainty on the agricultural sector in Norway. *Agricultural Systems*. 153: 118–126. DOI:10.1016/j.agsy.2017.01.016.
- Mndeme, F.G. 2016. Adaptation strategies to climate variability and climate change; Impacts on food security among smallholder farmers in Moshi Rural District, Kilimanjaro Region, Tanzania: perceptions, capacities and limitations of adaptive strategies. Thesis. Aarhus University. Denmark.
- Moghariya, D.P. 2012. Farm level knowledge, risk perception, concern, and adaptation to climate change: A perspective from Saurashtra and Kutch Region of Western India. Disertasi. College of Environmental Science and Forestry. State University of New York. Syracuse New York.
- Muller, C. & S. E. Shackleton. 2014. Perceptions of climate change and barriers to adaptation amongst commonage and commercial livestock farmers in the semi-arid Eastern Cape Karoo. *African Journal of Range & Forage Science*. 31 (1): 1–12. DOI:10.2989/10220119.2013.845606.
- Murniati, K. 2014. Adaptasi perubahan iklim dan keterkaitannya dengan produktivitas dan ketahanan pangan rumah tangga petani padi di Kabupaten Tanggamus. Disertasi. Universitas Gadjah Mada. Yogyakarta.
- Murphy, A. 2015. *Creating Resilient Livelihoods*. Thesis. Wageningen University. Belanda
- Musyafak 2013. Optimalisasi usahatani berkelanjutan berbasis Crop Livestock

System dan ketahanan pangan rumah tangga petani di Lahan Pasang Surut Kalimantan Barat. Disertasi. Universitas Gadjah Mada. Yogyakarta.

- Mutekwa, V.T. 2009. Climate change impacts and adaptation in the agricultural sector: the case of smallholder farmers in Zimbabwe. *Journal of Sustainable Development in Africa*. 11 (2): 237–256.
- Nagari, R.K. & S. Nindya. 2017. Tingkat kecukupan energi, protein dan status ketahanan pangan rumah tangga berhubungan dengan status gizi anak usia 6-8 tahun. *Amerta Nutrition*: 189–197. DOI:10.20473/amnt.v1.i3.2017.189-197.
- Nakajima, C. 1986. *Subjective equilibrium theory of the farm household*. Elsevier. Kyoto.
- Nasir 2005. *Metode Penelitian*. Ghalia Indonesia. Jakarta.
- Nhuan, M. T., N. Y. Tue, T. D. Quy. 2018. Enhancing resilience to climate change and disasters for sustainable development: case study of Vietnam Coastal Urban Areas. – In: Takeuchi, K., Saito, O., Matsuda, H., Mohan, G. (eds.) *Resilient Asia: Fusion of Traditional and Modern Systems for a Sustainable Future*. Springer Imprint, Tokyo.
- Nicholson, W. & C. Snyder. 2010. *Microeconomic theory: basic principles and extensions*. Cengage Learning. United States of America.
- Nirdayana, K., D. N. Priminigtyas & H. S Hadi. 2011. Dampak perubahan iklim terhadap produksi dan pendapatan usahatani magga. *Habitat*. XXII(2): 146–173.
- Nugroho, B.D.A. 2016. *Fenomena iklim global, perubahan iklim dan dampaknya di Indonesia*. Gadjah Mada University Press. Yogyakarta.
- Ogalleh, S. A, C. R. Vogl, J. Eitzinger, & M. Hauser. 2012. Local perceptions and responses to climate change and variability: The case of Laikipia District, Kenya. *Sustainability*. 4: 3302-3325. DOI:10.3390/su4123302.
- Patimah, S. 2010. *Komparasi pendapatan usaha tani kacang panjang organik dan anorganik di desa sei asam kecamatan kapuas hilir kabupaten kapuas*. Thesis. Fakultas pertanian Universitas Islam Kalimantan. Banjarmasin.
- Panda, A. 2016. Exploring climate change perceptions , rainfall trends and perceived barriers to adaptation in a drought affected region in India. *Natural Hazards*. 84 (2): 777-796. DOI:10.1007/s11069-016-2456-0
- Pindyck, R. & Rubinfeld, D. 2013. *Microeconomics*. Pearson. United States of America.
- Pinstrup-Andersen, P. 2009. Food security: definition and measurement. *Food Security*. 1(1): 5–7. DOI:10.1007/s12571-008-0002-y.
- Piya, L., K. L. Maharjan, N.P Joshi, & K. Lall. 2013. Determinants of adaptation practices to climate change by Chepang households in the rural Mid-Hills of Nepal. *Regional Environmental Change*. 13 (2): 437–447. DOI:10.1007/s10113-012-0359-5.
- Rahut, D.B. & A. Ali. 2017. Coping with climate change and its impact on productivity, income, and poverty: Evidence from the Himalayan region of Pakistan. *International Journal of Disaster Risk Reduction*. 24: 515–525.

DOI:10.1016/j.ijdr.2017.05.006.

- Rangkuti, A.A. 2017. Statistika inferensial untuk psikologi dan pendidikan. Kencana Predana Media. Jakarta
- Rao, S.L.H.V.P., C.S. Gopakumar, & K. Krishnakumar. 2013. Impacts of Climate Change on Horticulture Across India. *in: Climate-Resilient Horticulture: Adaptation and Mitigation Strategies* (ed. by H.C.P. Singh, N.K.S. Rao, and K.S. Shivashankar), Springer India, India.
- Rasmikayati, E. & E. Djuwendah. 2015. Dampak perubahan iklim terhadap perilaku dan pendapatan petani. *Jurnal Manusia dan Lingkungan*. 22 (3): 372. DOI:10.22146/jml.18764.
- Rejekiingrum, P., I. Las, I. Amien, E. Surmaini, A. Pramudia, dan Y. Sarvina. 2011. Adaptasi perubahan iklim sektor pertanian. Badan Penelitian dan Pengembangan Kementerian Pertanian. Jakarta.
- Ruminta 2015. Analisis penurunan produksi tanaman padi akibat perubahan iklim di Kabupaten Bandung Jawa Barat. *Jurnal Kultivasi*. 15 (1): 37–45.
- Roco, L. A. Engler, E. Boris, Bravo-ureta, R. Jaras-rojas. 2014. Farmers ' perception of climate change in mediterranean Chile. *Regional Environmental Change*. 15: 867-879. DOI: 10.1007/s10113-014-0669-x.
- Sanogo, K., J. Binam, J. Bayala, G. B. Villamor, A. Kalinganire, S. Dodiomon. 2017. Farmers ' perceptions of climate change impacts on ecosystem services delivery of parklands in southern Mali. 91: 345-361. DOI: 10.1007/s10457-016-9933-z.
- Santoso, H., T. Koerniawati, & R, N.L. 2011. Dampak perubahan iklim terhadap produksi dan pendapatan usahatani jagung. *AGRISE*. 6 (1–13).
- Sarker, A.R., K. Alam, J. Gow, A. R. Sarker, K. Alam, & J. Gow. 2013. Assessing the determinants of rice farmers' adaptation strategies to climate change in Bangladesh. *International Journal of Climate Change Strategies and Management*. 5 (4): 382–403. DOI:10.1108/IJCCSM-06-2012-0033.
- Scialabba, N. 2007. Organic agriculture and food security. – Conference on Organic Agriculture and Food Security, Rome, 3-5 May.
- Setiawan, I.A. & F. Ritonga. 2011. Analisis Jalur (path analysis) dengan menggunakan program AMOS. Suluh Media. Tangerang
- Shamsuddoha, M. & R. Chowdhury, R. 2009. Climate Change Induced Forced Migrants: in need of dignified recognition under a new Protocol. *Equity and Justice Working Group*. (31): 1–10.
- Shisanya, S. & P. Mafongoya. 2016. Adaptation to climate change and the impacts on household food security among rural farmers in uMzinyathi District of Kwazulu-Natal, South Africa. *Food Security*. 8(3): 597–608. DOI:10.1007/s12571-016-0569-7.
- Shukla, G., A. Kumar, A. Pala, Nazir & S. Chakravarty. 2016. Farmers perception and awareness of climate change: A case study from Kanchandzonga Biosphere Reserve, India. *Environment, Development and Sustainability* 18 (4): 1167-1176. DOI: 10.1007/s10668-015-9694-2.

- Singh, I., Squire, L., & Strauss, J. 1986. *Agricultural Household Models_ Extensions, Applications, and Policy*. in: The John Hopkins University Press, Maryland. USA.
- Smith, L.C. & T. R. Frankenberger. 2017. Does Resilience Capacity Reduce the Negative Impact of Shocks on Household Food Security? Evidence from the 2014 Floods in Northern Bangladesh. *World Development journal*. DOI: <http://dx.doi.org/10.1016/j.worlddev.2017.07.003>
- Smit, B., I. Burton, R. J. T. Klein & J. Wandel. 2000. An Anatomy of adaptation to climate change and variability. 45, 223–251.
- Soekartawi. 2001. *Pengantar agroindustri*. PT. Raha Gasindo Persada. Jakarta.
- Speranza, I., U. Wiesmann, & S. Rist. 2014. An indicator framework for assessing livelihood resilience in the context of social-ecological dynamics. *Global Environmental Change*. 28 (1): 109–119. DOI:10.1016/j.gloenvcha.2014.06.005.
- Sugihardjo. 2016. Model adaptasi ekologi petani sebagai strategi pengelolaan usahatani akibat perubahan iklim (Kasus di Daerah Aliran Sungai Cemor, Jawa Tengah, Indonesia). Disertasi. Universitas Negeri Solo. Solo.
- Suhardjo, L.J Harper, B.J Deaton dan J.A Driskel. 1986. *Pangan, Gizi dan Pertanian*. Penerbit Universitas Indonesia, Jakarta.
- Suharyanto. 2014. Dampak penerapan Pengelolaan Tanaman Terpadu (PTT) Padi Sawah terhadap produksi, efisiensi, pendapatan, dan ketahanan pangan rumah tangga petani di Provinsi Bali. Disertasi. Universitas Gadjah Mada. Yogyakarta.
- Sukartini, N.M. & A. Solihin. 2013. Respon petani terhadap perkembangan teknologi dan perubahan iklim: studi Kasus Subak di Desa Gadungan, Tabanan, Bali. *Jurnal Ekonomi Kuantitatif Terapan*. 6: 128–139.
- Suprihati, Yuliawati, H. Soetjipto, & T. Wahyono. 2015. Persepsi petani dan adaptasi petani budidaya tembakau-sayuran atas fenomena perubahan iklim di Desa Tlogolele, Kecamatan Selo, Kabupaten Boyolali. *Jurnal Manusia dan Lingkungan*. 22 (3): 326–332.
- Suratiyah, K. 2015. *Ilmu Usahatani*. Penerbar Swadaya. Jakarta.
- Surmaini, E. dan E. Runtunuwu. 2011. Upaya sektor pertanian dalam menghadapi perubahan iklim. *Jurnal Litbang Pertanian*. 30 (1): 1–7. DOI:10.21082/JP3.V30N1.2011.P1-7.
- Suryana, A., D.A.N.S. Beras & A. Suryana. 2008. Menelisik ketahanan pangan, kebijakan pangan, dan swasembada beras. *Pengembangan Inovasi Pertanian*. 1 (1): 1–16.
- Swe, L. M. M, R. P.Shrestha, T. Ebberts, D. Jourdain. 2015. Farmers' perception of and adaptation to climate-change impacts in the Dry Zone of Myanmar. *Climate and Development*. 7 (5): 437-453. DOI: 10.1080/17565529.2014.989188.
- Syukur, M. 2016. Adaptasi sosial petani tadah hujan terhadap perubahan iklim. *Jurnal Predestinasi*. 9 (2): 100-114.
- Taber, K.S. 2018. The use of crocnbach's alpha when developing and reporting research instruments in science education. *Research in science education* 48:

1273-1296.

- Tanner, T., D. Lewis, D. Wrathall, R. Bronen, N. Craddock-Henry, S. Huq, C. Lawless, R. Nawrotzki, V. Prasad, M. A. Rahman, R. Alaniz, K. King, K. McNamara, M. Nadiruzzaman, S. Henly-Shepard, & F. Thomalla. 2015. Livelihood resilience in the face of climate change. *Nature Climate Change*. 1 (1): 1–4. DOI:10.1038/nclimate2431.
- Tambo, J.A. 2016. Adaptation and resilience to climate change and variability in north-east Ghana. *International Journal of Disaster Risk Reduction*. 17: 85–94. DOI:10.1016/j.ijdr.2016.04.005.
- Tambo, J.A. & T. Abdoulaye. 2013. Smallholder farmers' perceptions of and adaptations to climate change in the Nigerian savanna. *Regional Environmental Change*. 13 (2): 375–388. DOI:10.1007/s10113-012-0351-0.
- Tambo, J.A. & T. Wünscher. 2017. Enhancing resilience to climate shocks through farmer innovation: evidence from northern Ghana. *Regional Environmental Change*. 17 (5): 1505–1514. DOI:10.1007/s10113-017-1113-9.
- Tessema, Y.A., C. S. Aweke, & G. S. Endris. 2013. Understanding the process of adaptation to climate change by small-holder farmers: the case of east Hararghe Zone, Ethiopia. *Agricultural and Food Economics*. 1 (1): 13. DOI:10.1186/2193-7532-1-13.
- Thulstrup, A.W. 2015. Livelihood resilience and adaptive capacity: tracing changes in household access to capital in Central Vietnam. *World Development*. 74: 352–362. DOI: 10.1016/j.worlddev.2015.05.019.
- Tripathi, A & A. K. Mishra. 2017. Climate Risk Management Knowledge and passive adaptation to climate change: An example from Indian farmers. *Climate Risk Management*. 19: 195- 207 DOI:10.1016/j.crm.2016.11.002.
- Tucker, C.M., H. Eakin & E.J. Castellanos. 2010. Perceptions of risk and adaptation: Coffee producers, market shocks, and extreme weather in Central America and Mexico. *Global Environmental Change*. 20: 23–32. DOI:10.1016/j.gloenvcha.2009.07.006.
- Ullah, W. & T. Nihei. 2017. Understanding climate change vulnerability, adaptation and risk perceptions at household level in Khyber Pakhtunkhwa, Pakistan. *International Journal of Climate Change Strategies and Management* DOI:10.1108/IJCCSM-02-2017-0038.
- Umar, H. 2002. Metode riset bisnis: panduan mahasiswa untuk melaksanakan riset dilengkapi dengan proposal dan hasil riset bidang manajemen dan akuntansi. Gramedia Pustaka Utama. Jakarta
- Utami, A.W. L. A. Cramer & N. Rosenberger. 2018. Staple food diversification Versus raskin: developing climate change resilience in rural Indonesia. *Human Organization*. 77 (4): 359-370. DOI:0018-7259/18/040359-12\$1.70/1
- Uy, N., Y. Takeuchi & R. Shaw. 2011. Local adaptation for livelihood resilience in Albay, Philippines. *Environmental Hazards*. 10 (2): 139–153. DOI:10.1080/17477891.2011.579338.
- Wahyuni, K.I. 2016. Penilaian ekonomi dan indeks kerentanan rumah tangga petani padi di Kabupaten Timor Tengah Utara, Provinsi Nusa Tenggara Timur. Tesis.

Institute Pertanian Bogor. Bogor

- Wahyudi, E. 2014. Analisis produksi, pendapatan, ketahanan pangan, dan keberlanjutan usahatani di sekitar tambang batubara Kabupaten Kutai. Disertasi. Universitas Gadjah Mada. Yogyakarta.
- Weldegebriel, Z.B. & B. E. Amphune. 2017. Livelihood resilience in the face of recurring floods: an empirical evidence from Northwest Ethiopia. *Geoenvironmental Disasters*. 4: 1–19. DOI:10.1186/s40677-017-0074-0.
- Widada, A.W., S. Hardyastuti & J. H. Mulyo. 2014. Analisis kerentanan penghidupan rumah tangga tani akibat perubahan iklim di Kabupaten Gunung Kidul. *Agro Ekonomi*. 24 (1): 1- 0.
- World Bank 2010. Adaptasi terhadap perubahan iklim. <<http://siteresources.worldbank.org/INTINDONESIA/Resources/Publication/280016-1235115695188/5847179-1258084722370/Adaptasi.terhadap.Perubahan.Iklm.pdf>> (diakses 10 Januari 2018).
- Yamin, S. & Kurniawan, H. 2014. SPPS. Salemba Infotek. Jakarta.
- Yaro, J.A. 2013. The perception of and adaptation to climate variability/change in Ghana by small-scale and commercial farmers. *Regional Environmental Change*. 13 (1): 1259–1272. DOI:10.1007/s10113-013-0443-5.
- Zhou, H., J. Wang, J. Wan & H. Jia. 2010. Resilience to natural hazards: A geographic perspective. *Natural Hazards*. 53 (1): 21–41. DOI:10.1007/s11069-009-9407-y.