

DAFTAR PUSTAKA

- Ahmad, A., Khan, M., Sharif, R., Mujtaba, M., & Gao, S. (2019). Sugarcane Omics : An Update on the Current Status of Research and Crop Improvement. *Plants*, 1–24.
- Ahmad, A., Ordoñez, J., & Cartujo, P. (2021). *Remotely Piloted Aircraft (RPA) in Agriculture : A Pursuit of Sustainability*.
- Alam, T. dan S. (2014). Karakteristik Tanah dan Evaluasi Lahan untuk Pengembangan Tanaman Padi Sawah di Kecamatan Oheo Kabupaten Konawe Utara. *Jurnal AGRIPLUS*, 24(2), 184–194.
- Amalia, A. ., & Fariz, T. . (2024). *Comparison Of SWAT-Based Ecohydrological Modeling in The Rawa Pening Catchment Area, Indonesia*. 13(1), 1–11. <https://doi.org/10.15294/jpii.v13i1.45277>
- Andrade, C. (2023). Understanding Statistical Noise in Research: 3. Noise in Regression Analysis. *Indian Journal of Psychological Medicine*, 45(3), 310–311. <https://doi.org/10.1177/02537176231164651>
- Ashraf, A., Ahmad, L., Ferooz, K., Ramzan, S., Ashraf, I., & Khan, J. N. (2023). *Remote Sensing as a Management and Monitoring Tool for Agriculture : Potential Applications*. 13(8), 324–343. <https://doi.org/10.9734/IJECC/2023/v13i81957>
- Astill, J., Dara, R. A., Fraser, E. D. G., Roberts, B., & Sharif, S. (2020). Smart poultry management : Smart sensors , big data , and the internet of things. *Computers and Electronics in Agriculture*, 170(February), 105291. <https://doi.org/10.1016/j.compag.2020.105291>

Ballester, C., & Quayle, W. (2017). *Assessment of In-Season Cotton Nitrogen Status and Lint Yield Prediction from Unmanned Aerial System Imagery*. 1–18. <https://doi.org/10.3390/rs9111149>

Bashir, O., Ahmad, S., Shuja, S., Senesi, N., Kader, S., & Alamri, S. (2024). Ecological Informatics Geostatistical modeling approach for studying total soil nitrogen and phosphorus under various land uses of North-Western Himalayas. *Ecological Informatics*, 80(December 2023), 102520. <https://doi.org/10.1016/j.ecoinf.2024.102520>

Bassi, D., Menossi, M., & Mattiello, L. (2018). Nitrogen supply influences photosynthesis establishment along the sugarcane leaf. *Scientific Reports*, January, 1–13. <https://doi.org/10.1038/s41598-018-20653-1>

Bonomelli, C., Freitas, S. T. De, Aguilera, C., Palma, C., Garay, R., Dides, M., Brossard, N., & Brien, A. O. (2021). *Ammonium Excess Leads to Ca Restrictions , Morphological Changes , and Nutritional Imbalances in Tomato Plants , Which Can Be Monitored by the N / Ca Ratio.*

Brinkhoff, J., Dunn, B. W., Robson, A. J., Dunn, T. S., & Dehaan, R. L. (2019). Modeling Mid-Season Rice Nitrogen Uptake Using Multispectral Satellite Data. *Remote Sensing*, 11, 1–22. <https://doi.org/10.3390/rs11151837>

Cahyono, A. E., & Indrayani, L. (2020). *Strategy of Developing Local Economy Based on Regional Superior Commodities*. 12(7), 11–20. <https://doi.org/10.5539/ijef.v12n7p11>

Calvet, jean christope, Albergel, C., Baghdadi, N., & Munier, S. (2020). *Remote sensing*. 137–156.

Cezar, J., Vasconcelos, S., Speranza, E. A., Francisco, J., Antunes,

- G., Antonio, L., Barbosa, F., Christofoletti, D., Severino, F. J., Magela, G., & Cançado, D. A. (2023). *Development and Validation of a Model Based on Vegetation Indices for the Prediction of Sugarcane Yield*. 698–719.
- Corp, L. A., McMurtrey, J. E., Middleton, E. M., Mulchi, C. L., Chappelle, E. W., & Daughtry, C. S. T. (2003). *Fluorescence sensing systems : In vivo detection of biophysical variations in field corn due to nitrogen supply*. 86(3), 470–479. [https://doi.org/10.1016/S0034-4257\(03\)00125-1](https://doi.org/10.1016/S0034-4257(03)00125-1)
- Fatmawati, Y., Geodesi, T., & Winaya, U. (2024). Akuisisi Data Citra Menggunakan UAV Multipektral Guna Penentuan Indeks Kerapatan Vegetasi Dengan Metode NDVI dan NDRE. *GEOPLANART*, 6(2), 1–10.
- Fiorio, P. R., Silva, C., Rizzo, R., Dematte, J., Luciano, S., & Andrade, M. (2024). Prediction of leaf nitrogen in sugarcane (*Saccharum spp.*) by Vis-NIR-SWIR spectroradiometry. *Heliyon*, 10(January). <https://doi.org/10.1016/j.heliyon.2024.e26819>
- Gandharum, L., Mulyani, M. E., Hartono, D. M., Karsidi, A., Gandharum, L., Mulyani, M. E., Hartono, D. M., & Karsidi, A. (2021). Remote sensing versus the area sampling frame method in paddy rice acreage estimation in Indramayu regency , West Java province , Indonesia. *International Journal of Remote Sensing*, 42(5), 1738–1767. <https://doi.org/10.1080/01431161.2020.1842541>
- Gascon, F. (2018). *Sentinel-2 for Agricultural Monitoring*. 8166–8168.
- Gil, L. K. T., Valdelamar, D., & Saba, M. (2023). *The Widespread Use of Remote Sensing in Asbestos , Vegetation , Oil and Gas , and Geology Applications*.

- Govindasamy, P., Muthusamy, S. K., Tej, P., Jagannadham, K., Maity, A., Halli, H. M., Sujayananad, G. K., Vadivel, R., Das, T. K., Raj, R., Pooniya, V., Babu, S., Rathore, S. S., Muralikrishnan, L., & Tiwari, G. (2023). *Nitrogen use efficiency—a key to enhance crop productivity under a changing climate.* 3, 1–19. <https://doi.org/10.3389/fpls.2023.1121073>
- Gozdowski, D., Stepien, M., Panek, E., Varghese, J., & Rozbicki, J. (2020). Comparison of winter wheat NDVI data derived from Landsat 8 and active optical sensor at field scale. *Remote Sensing Applications: Society and Environment*, 20(March). <https://doi.org/10.1016/j.rsase.2020.100409>
- Haboudane, D., Miller, J. R., Tremblay, N., Zarco-tejada, P. J., & Dextraze, L. (2002). *Integrated narrow-band vegetation indices for prediction of crop chlorophyll content for application to precision agriculture.* 81, 416–426.
- Hader, D.-P. (2022). Photosynthesis in Plants and Algae. *Anticancer Research*, 42, 5035–5041. <https://doi.org/10.21873/anticanres.16012>
- Han, X., Wei, Z., Chen, H., Zhang, B., Li, Y., & Du, T. (2021). Inversion of Winter Wheat Growth Parameters and Yield Under Different Water Treatments Based on UAV Multispectral Remote Sensing. *Frontiers in Plant Science*, 12, 1–13. <https://doi.org/10.3389/fpls.2021.609876>
- Hotmartua, P., Pasaribu, P., Km, J., Bogor, K., Barat, J., & Indonesia, B. (2022). *D-11B Analisis Kelerengan , Jenis Tanah dan Curah Hujan Untuk Arahan Penggunaan Lahan di Desa Merdeka.* 30–35.
- Huang, S., Tang, L., Hupy, J. P., Wang, Y., & Shao, G. (2021). A commentary review on the use of normalized difference vegetation index (NDVI) in the era of popular remote

sensing. *Journal of Forestry Research*, 32(1), 1–6.
<https://doi.org/10.1007/s11676-020-01155-1>

Huang, W.-T., Xie, Y.-Z., & Chen, X.-F. (2021). Growth , Mineral Nutrients , Photosynthesis and Related Physiological Parameters of Citrus in Response to Nitrogen Deficiency. *Agronomy*, 11, 1–2.

Huang, Y., Zhong-xin, C., Tao, Y. U., Xiang-zhi, H., & Xing-fa, G. U. (2018). Agricultural remote sensing big data: Management and applications. *Journal of Integrative Agriculture*, 17(9), 1915–1931. [https://doi.org/10.1016/S2095-3119\(17\)61859-8](https://doi.org/10.1016/S2095-3119(17)61859-8)

Irsan, L. M., Murti, S. H., & Widayani, P. (2019). *Estimasi Produksi Jagung (Zea Mays L .) Dengan Kabupaten Jeneponto Provinsi Sulawesi Selatan*. 8, 93–104.

Janoušek, J., Marcon, P., Dohnal, P., & Jambor, V. (2023). *Predicting the Optimum Corn Harvest Time via the Quantity of Dry Matter Determined with Vegetation Indices Obtained from*.

Jiang, J., Wang, C., Wang, Y., Cao, Q., Tian, Y., Zhu, Y., & Cao, W. (2020). Using an Active Sensor to Develop New Critical Nitrogen Dilution Curve for Winter Wheat. *Sensors*.

Khumar, S., Patil, V., Rekha, Virnodkar, S., & Bartalev, S. (2022). Sugarcane Yield Prediction Using Vegetation Indices in Karnataka, India. *Universal Journal Of Agricultural Research*, 10(December), 699–721.
<https://doi.org/10.13189/ujar.2022.100611>

Kishorekumar, R., Bulle, M., Wany, A., & Gupta, K. J. (2020). An Overview of Important Enzymes Involved in Nitrogen Assimilation of Plants Reddy. *Methods in Molecular Biology*, 2057.

- Kusumawati, A., Putratama, D. R., Studi, P., Perkebunan, P., & Korespondesi, P. (2023). Evaluasi Kesesuaian Lahan Tanaman Tebu (*Saccharum officinarum* L.) di Lahan Pasiran Cangkringan, Yogyakarta Evaluation. *Agroteknika*, 6(April), 91–102.
- Lary, D. J., Alavi, A. H., Gandomi, A. H., & Walker, A. L. (2016). Geoscience Frontiers Machine learning in geosciences and remote sensing. *Geoscience Frontiers*, 7(1), 3–10. <https://doi.org/10.1016/j.gsf.2015.07.003>
- Latue, T., & Latue, P. C. (2023). Pemodelan Spasial Daerah Rawan Banjir di DAS Batu Merah Kota Ambon. *Buana Jurnal Geografi, Ekologi Dan Kebencanaan*, 1(1), 1–13. <https://doi.org/10.56211/buana.v1i1.341>
- Lufi, S., & Ery, S. (2020). *Hydrological Analysis of TRMM (Tropical Rainfall Measuring Mission) Data in Hydrological Analysis of TRMM (Tropical Rainfall Measuring Mission) Data in Lesti Sub Watershed*. April. <https://doi.org/10.21776/ub.civense.2020.00301.3>
- Mall, R. K., Sonkar, G., Bhatt, D., Sharma, N. K., Baxla, A. K., & Singh, K. K. (2016). Managing impact of extreme weather events in sugarcane in different agro-climatic zones of Uttar Pradesh. *Mausam*, 1(January), 233–250.
- Martimort, P., Arino, O., Berger, M., Biasutti, R., Carnicer, B., & Del, U. (2007). *Sentinel-2 Optical High Resolution Mission for GMES Operational Services*. 1, 2677–2680.
- Mishra, P., Shahrimie, M., Asaari, M., Herrero-langreo, A., Lohumi, S., & Scheunders, P. (2017). *ScienceDirect Close range hyperspectral imaging of plants : A review*. 4. <https://doi.org/10.1016/j.biosystemseng.2017.09.009>

Naguib, N., & Daliman, S. (2022a). Analysis of NDVI and NDRE Indices Using Satellite Images for Crop Identification at Kelantan Analysis of NDVI and NDRE Indices Using Satellite Images for Crop Identification at Kelantan. *Eaarth and Environmental Science*. <https://doi.org/10.1088/1755-1315/1102/1/012054>

Naguib, N., & Daliman, S. (2022b). *Analysis of NDVI and NDRE Indices Using Satellite Images for Crop Identification at Kelantan Analysis of NDVI and NDRE Indices Using Satellite Images for Crop Identification at Kelantan*. 0–7. <https://doi.org/10.1088/1755-1315/1102/1/012054>

Narmilan, A., Gonzalez, F., Surantha, A., & Salgadoe, A. (2022). *Predicting Canopy Chlorophyll Content in Sugarcane Crops Using Machine Learning Algorithms and Spectral Vegetation Indices Derived from UAV Multispectral Imagery*.

Nugroho, S., Akbar, S., & Vusvitasari, R. (2008). Kajian Hubungan Koefisien Korelasi Pearson (r), Spearman- rho (ρ). *Jurnal Gradien*, 4(2), 372–381.

Otto, R., Mariano, E., Mulvaney, R. L., Khan, S. A., Boschiero, B. N., Tenelli, S., Cezar, P., & Trivelin, O. (2019). *Soils and Plant Nutrition | Research Article Effect of previous soil management on sugarcane response to nitrogen fertilization Materials and Methods*. February, 72–81.

Pan, Y., Li, J., Zhang, J., He, J., Zhang, Z., Yao, X., Cheng, T., Zhu, Y., Cao, W., & Tian, Y. (2024). Estimating Leaf Nitrogen Accumulation Considering Vertical Heterogeneity Using Multiangular Unmanned Aerial Vehicle Remote Sensing in Wheat. *Plant Phenomics*, 1–14. <https://doi.org/10.34133/plantphenomics.0276>

Pandey, P., Singh, S., Khan, M. S., & Semwal, M. (2022). *Non-*

invasive Estimation of Foliar Nitrogen Concentration Using Spectral Characteristics of Menthol Mint (Mentha arvensis L.). 13(May). <https://doi.org/10.3389/fpls.2022.680282>

Priambodo, O. N. (2021). Model Simulasi Nitrogen Pada Tanaman Tebu (Saccharum officinarum L .). *Jurnal Vokasi Teknologi Industri*, 3(2), 1–8.

Ricardo, P., Augusto, C., Cardoso, A., Rizzo, R., Dematt, M., Cl, A., Luciano, S., & Andrade, M. (2024). *Heliyon Prediction of leaf nitrogen in sugarcane (Saccharum spp .) by Vis-NIR-SWIR spectroradiometry.* 10(January).

Rivai, R. R., Takada, R., Miyamoto, T., Hanano, S., Ohdoi, K., & Kobayashi, M. (2021). Examination of the usability of leaf chlorophyll content and gene expression analyses as nitrogen status biomarkers in Sorghum bicolor. *Journal of Plant Nutrition*, 44(6), 773–790. <https://doi.org/10.1080/01904167.2020.1867581>

Sagadevan, K., Babu, D., & Janakiraman, V. (2022). A short review on sugarcane : its domestication , molecular manipulations and future perspectives. *Genetic Resources and Crop Evolution*, 69(8), 2623–2643. <https://doi.org/10.1007/s10722-022-01430-6>

Saloner, A., Bernstein, N., & Gioia, F. Di. (2020). *Response of Medical Cannabis (Cannabis sativa L .) to Nitrogen Supply Under Long Photoperiod.* 11(November). <https://doi.org/10.3389/fpls.2020.572293>

Sharifi, A. (2020). *Using Sentinel-2 Data to Predict Nitrogen Uptake in Maize Crop.* 13, 2656–2662.

Som-ard, J., Atzberger, C., Izquierdo-verdiguier, E., Vuolo, F., & Immitzer, M. (2021). *Remote Sensing Applications in*

Sugarcane Cultivation : A Review. 1–46.

Sousa, V., Salami, G., Isabelle, M., Silva, E. A., Jorge, J., Junior, M., & Alba, E. (2020). Methodological evaluation of vegetation indexes in land use and land cover (LULC) classification. *Geology, Ecology, and Landscapes*, 4(2), 159–169. <https://doi.org/10.1080/24749508.2019.1608409>

Steele-dunne, S. C., Mcnairn, H., Monsivais-huertero, A., & Member, S. (2017). *Radar Remote Sensing of Agricultural Canopies : A Review.* 1–25.

Sulaiman, P. S., Khalid, F., Azman, A., Kahar, Z. A., & Hanafi, M. (2024). *Reviewing Vegetation Indices for Mobile Application : Potentials and Challenges.* 2(2), 33–46.

Urban, A., Rogowski, P., & Wasilewska-d, W. (2021). *Understanding Maize Response to Nitrogen Limitation in Different Light Conditions for the Improvement of Photosynthesis.*

Wahyuni, A. P., & Astuti, I. S. (2022). *Estimasi fase pertumbuhan dan produktivitas tebu menggunakan citra sentinel 2 di Kecamatan Dampit , Kabupaten Malang.* 2(12), 1260–1278. <https://doi.org/10.17977/um063v2i122022p1260-1278>

Wallace, L., Lucieer, A., Watson, C., & Turner, D. (2012). *Forest Inventory.* 1519–1543. <https://doi.org/10.3390/rs4061519>

Wulder, M. A., Loveland, T. R., Roy, D. P., Crawford, C. J., Masek, G., Woodcock, C. E., Allen, R. G., Anderson, M. C., Belward, A. S., Cohen, W. B., Dwyer, J., Erb, A., Gao, F., Gri, P., Helder, D., Hermosilla, T., Hipple, J. D., Hostert, P., Hughes, M. J., ... Zhu, Z. (2019). *Remote Sensing of Environment Current status of Landsat program , science , and applications.* 225(February), 127–147.

<https://doi.org/10.1016/j.rse.2019.02.015>

Xiong, X., Butler, J., Goddard, N., Flight, S., & States, U. (2018). Volume 1 Overview. In *Comprehensive Remote Sensing* (Vol. 1). Elsevier. <https://doi.org/10.1016/B978-0-12-409548-9.10311-2>

Yu, J., Wang, J., Leblon, B., & Song, Y. (2022). *Nitrogen Estimation for Wheat Using UAV-Based and Satellite Multispectral Imagery , Topographic Metrics , Leaf Area Index , Plant Height , Soil Moisture , and Machine Learning Methods.* 1–25.

Zawiyah, Tjandra, M. A., & Yanti, D. (2025). Land Use Scenario Simulation for Erosion Control Using the Universal Soil Loss Equation (USLE) Method in Nagari Lawang , Agam Regency. *Jurnal Teknik Pertanian Lampung (Journal of Agricultural Engineering)*, 14(1), 262–272.

Zhang, K., Ge, X., Shen, P., Li, W., Liu, X., Cao, Q., & Zhu, Y. (2019). Predicting Rice Grain Yield Based on Dynamic Changes in Vegetation Indexes during Early to. *Remote Sensing*, 1–24. <https://doi.org/10.3390/rs11040387>

Zhao, Y., Yu, L., Ai, J., Zhang, Z., Deng, J., & Zhang, Y. (2023). *Climate Variations in the Low-Latitude Plateau Contribute to Different Sugarcane (Saccharum spp .) Yields and Sugar.*

Zheng, C., Elrahman, A., & Whitaker, V. (2021). *Remote Sensing and Machine Learning in Crop Phenotyping and Management , with an Emphasis on Applications in Strawberry Farming.* 1, 1–28.

Zukhrifa, A., Irsyad, F., & Yanti, D. (2025). *Determination of Superior Agricultural Commodity Areas Based on Historical Data and Land Suitability.* 14(2), 701–713.

