

DAFTAR PUSTAKA

- [1] A. Budiman and A. R. Syahputra, “Pengembangan model biogas rumahan untuk mereduksi sampah (limbah) ternak di desa kananga kecamatan bolo kabupaten bima,” *Jurnal Ilmiah Administrasi Negara*, vol. 16, no. 2, 2019.
- [2] K. Saptaji, M. R. Fikri, I. B. S. Hadisujoto, and A. Harjon, “Sosialisasi Pemanfaatan Sampah Organik Rumah Tangga untuk Biogas dan Pemasangan Biodigester,” *Jurnal Pengabdian Masyarakat Teknik*, vol. 4, no. 1, pp. 11–18, 2021.
- [3] N. Thooyibah, A. J. N. Putro, D. Sarwanto, M. N. Azis, A. Rohmah, and M. Ali, “BIO THINGS V2: PENGEMBANGAN ALAT PENGHASIL BIOGAS OTOMATIS MENGGUNAKAN TENAGA HYBRID BERBASIS IOT (INTERNET OF THINGS) GUNA MENINGKATKAN HASIL PRODUKSI”.
- [4] C. T. Kurniawan and R. K. Sari, “Rancang Bangun Pengaduk Manual Pada Digester Biogas Kotoran Sapi untuk Meningkatkan Pembentukan Gas Metana,” *Jurnal Teknik Industri Terintegrasi (JUTIN)*, vol. 5, no. 1, pp. 68–79, 2022.
- [5] C. Mateescu, “Influence of the hydrostatic pressure on biogas production in anaerobic digesters,” *Rom Biotechnol Lett*, vol. 21, no. 5, pp. 11941–11948, 2016.
- [6] V. Acharya, V. V Hegde, K. Anjan, and M. Kumar, “IoT (Internet of Things) based efficiency monitoring system for bio-gas plants,” in *2017 2nd International Conference on Computational Systems and Information Technology for Sustainable Solution (CSITSS)*, IEEE, 2017, pp. 1–5.
- [7] M. Nabi et al., “Enhancement of high pressure homogenization pretreatment on biogas production from sewage sludge: A review,” *Desalin. Water Treat*, vol. 175, pp. 341–351, 2020.
- [8] R. Elizabeth and S. Rusdiana, “Efektivitas Pemanfaatan Biogas Sebagai Sumber Bahan Bakar Dalam Mengatasi Biaya Ekonomi Rumah Tangga di Perdesaan,” in *Prosiding Seminar Nasional Era Baru Pembangunan Pertanian: Strategi Mengatasi Masalah Pangan, Bioenergi dan Perubahan Iklim*, 2011, pp. 220–234.
- [9] A. Çaylı, A. Akyüz, A. N. Baytorun, S. Üstün, and A. S. Mercanlı, “The feasibility of a cloud-based low-cost environmental monitoring system via open source hardware in greenhouses,” *Kahramanmaraş Sütçü İmam Üniversitesi Tarım ve Doğa Dergisi*, vol. 21, no. 3, pp. 323–338, 2018.
- [10] S. R. T. M. MPX5500DP, “Data Logger Suhu Dan Tekanan Pada Smart Biogas Sampah Rumah Tangga Menggunakan MPX5500DP”.
- [11] R. Fernanda, F. Septian, N. Setyasaputra, and B. Dirgantoro, “Perancangan dan Implementasi Sistem Sensing dan Ground Segment untuk Quadrotor APTRG,” in *Prosiding Seminar Nasional Penginderaan Jauh 2014*, LAPAN, 2014, pp. 12–19.
- [12] I. Widyatmika, N. P. A. W. Indrawati, I. Prastyo, I. K. Darminta, I. Sangka, and A. A. N. G. Sapteka, “Perbandingan Kinerja Arduino Uno dan ESP32 Terhadap Pengukuran Arus dan Tegangan,” *Jurnal Otomasi Kontrol dan Instrumentasi*, vol. 13, no. 1, pp. 35–47, 2021.
- [13] A. Darmanto, S. Soeparman, and D. Widhiyanuriawan, “Pengaruh Kondisi Temperatur Mesophilic (35°C) Dan Thermophilic (55°C) Anaerob Digester Kotoran Kuda Terhadap Produksi Biogas,” *Jurnal Rekayasa Mesin*, vol. 3, no. 2, pp. 317–326, 2012.
- [14] D. Kurnia and J. Juliandri, “Sistem Monitoring Pendaftaran Akun Siswa Kursus Komputer Dengan Notifikasi Telegram Bot (Study Kasus: LKP Medan Informatika Teknologi),” in *Seminar Nasional Sains dan Teknologi Informasi (SENSASI)*, 2021, pp. 192–195.
- [15] S. P. Santoso, “Teknologi pengawetan bahan segar,” *Bahan Ajar Laboratorium Kimia Pangan*. Malang: Universitas Widyagama, 2006.
- [16] D. Ramadhanty, S. Martini, and E. Febriyanti, “Perancangan Alat Bantu Pengujian Kebocoran Nozzle Pada Pt. Xyz Dengan Metode Rasional,” *eProceedings of Engineering*, vol. 8, no. 1, 2021.

- [17] M. Babiuch, P. Foltýnek, and P. Smutný, “Using the ESP32 microcontroller for data processing,” in 2019 20th International Carpathian Control Conference (ICCC), IEEE, 2019, pp. 1–6.
- [18] R. C. Pandey, M. Verma, L. K. Sahu, and S. Deshmukh, “Internet of things (IOT) based gas leakage monitoring and alerting system with MQ-2 sensor,” International Journal of Engineering Development and Research, vol. 5, no. 2, pp. 2135–2137, 2017.
- [19] M. Bogdan, “How to use the DHT22 sensor for measuring temperature and humidity with the arduino board,” Acta Universitatis Cibiniensis. Technical Series, vol. 68, no. 1, pp. 22–25, 2016.
- [20] O. B. Otanocha, R. Oyovwikefe, M. O. Okwu, and L. K. Tartibu, “Modified biogas digester tank for production of gas from decomposable organic wastes,” Biomass Convers Biorefin, pp. 1–11, 2021.
- [21] P. Peerzada, W. H. Larik, and A. A. Mahar, “DC motor speed control through arduino and L298N motor driver using PID controller,” International Journal of Electrical Engineering & Emerging Technology, vol. 4, no. 2, pp. 21–24, 2021.
- [22] Y. Guo et al., “Solid-state lithium batteries: Safety and prospects,” EScience, vol. 2, no. 2, pp. 138–163, 2022.
- [23] Y. A. Ahmad, T. S. Gunawan, H. Mansor, B. A. Hamida, A. F. Hishamudin, and F. Arifin, “On the evaluation of DHT22 temperature sensor for IoT application,” in 2021 8th international conference on computer and communication engineering (ICCCE), IEEE, 2021, pp. 131–134.
- [24] S. Kaushik, Y. S. Chouhan, N. Sharma, S. Singh, and P. Suganya, “Automatic fan speed control using temperature and humidity sensor and Arduino,” Int. J. Adv. Res, vol. 4, no. 2, pp. 453–467, 2018.
- [25] D. R. Arivalahan, S. Balaji, M. Kamalakannan, and T. Vinoth, “Development of Arduino based microcontroller through Internet of Things (IoT) for the measurement and monitoring of process environmental parameters,” Journal of Electrical Engineering and Technology (IJEET), vol. 12, no. 2, pp. 50–61, 2021.
- [26] V. Mane, S. Kore, P. S. Pillai, C. I. Nalini, and A. Puri, “Real-Time Data Monitoring System for User Conveyance,” in Information and Communication Technology for Competitive Strategies (ICTCS 2020) ICT: Applications and Social Interfaces, Springer, 2022, pp. 761–769.
- [27] J. K. Park and E. Y. Park, “Real-time monitoring home security system utilizing Iot and Telegram bot,” Mathematical Statistician and Engineering Applications, vol. 71, no. 3, pp. 507–514, 2022.
- [28] A. Trirahma, “Telegram Bot as a Data Collection Tool for Progress Reports in Area Mapping Progress Monitoring System,” Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi), vol. 5, no. 6, pp. 1182–1192, 2021.
- [29] H. Gusdevi, P. Ade Setya, P. H. Zulaeha, and J. S. H. No, “Prototype of LPG gas leakage detector using flame sensor and MQ-2 sensor,” APTIKOM Journal on Computer Science and Information Technologies (CSIT) Vol. 5 No. 1 March 2020, vol. 2, p. 28, 2021.
- [30] I. Daruwati, R. G. Hatika, and D. Mardiansyah, “MQ-2 gas sensor using micro controller arduino uno for LPG leakage with short message service as a media information,” in Journal of Physics: Conference Series, IOP Publishing, 2021, p. 012068.
- [31] A. S. Puspaningrum, F. Firdaus, I. Ahmad, and H. Anggono, “Perancangan Alat Deteksi Kebocoran Gas Pada Perangkat Mobile Android Dengan Sensor Mq-2,” Jurnal Teknologi Dan Sistem Tertanam, vol. 1, no. 1, pp. 1–10, 2020.
- [32] W. Waris, I. Kharismawati, and M. S. Aswan, “Utilization of producing biogas from food waste in anaerob biodegester at thermophilic temperature,” in Journal of Physics: Conference Series, IOP Publishing, 2021, p. 012166.
- [33] C. Ismail, F. Wiropranoto, T. Takama, J. Lieu, and L. D. Virla, “Frugal Eco-innovation for Addressing Climate Change in Emerging Countries: Case of Biogas Digester in Indonesia,” in

- Handbook of Climate Change Management: Research, Leadership, Transformation, Springer, 2021, pp. 693–719.
- [34] I. Budiman, “The complexity of barriers to biogas digester dissemination in Indonesia: challenges for agriculture waste management,” *J Mater Cycles Waste Manag*, vol. 23, no. 5, pp. 1918–1929, 2021.
- [35] I. Abbas et al., “Development and performance evaluation of small size household portable biogas plant for domestic use,” *Biomass Convers Biorefin*, pp. 1–13, 2020.