

DAFTAR PUSTAKA

- Abidin, J., & Artauli Hasibuan, F. (2019). Pengaruh Dampak Pencemaran Udara Terhadap Kesehatan Untuk Menambah Pemahaman Masyarakat Awam Tentang Bahaya Dari Polusi Udara. *Prosiding SNFUR-4, September*, 2–4. <https://snf.fmipa.unri.ac.id/wp-content/uploads/2019/09/18>.
- Agustiarmi, W., & Darni, R. (2021). Sistem Otomatisasi Pengangkat Sampah pada Daerah Aliran Sungai Berbasis Internet of Things (IoT). *Jurnal Sains Dan Informatika*, 7(2), 50–56. <https://doi.org/10.22216/jsi.v7i2.729>
- Alwi, H. (2023). Rancang Bangun Prototype Pemantau Kualitas Udara PM 10 Dengan Berbasis Low Cost Sensor. *Program Studi Teknik Elektro Fakultas Sains Dan Teknologi Universitas Islam Negeri Sultan Syarif Kasim Riau Pekanbaru*.
- Apriandi, H., I Made, S. W., & I Gde, A. K. (2021). Rancangan Alat Ukur Suhu dan Kelembaban Udara Menggunakan Mikrokontroler ATmega 328P. *Buletin Fisika*, 23(1), 12. <https://doi.org/10.24843/bf.2022.v23.i01.p02>
- Ardiansyah, A., & Hidayatama, O. (2013). RANCANG BANGUN PROTOTIPE ELEVATOR MENGGUNAKAN MICROCONTROLLER ARDUINO ATMEGA 328P. *Jurnal Teknologi Elektro, Universitas Mercu*, 4, 100–112.
- Attenuation, B. (2017). *Sensing the Air Quality : Research on Air Quality Sensors Overview of Air Quality sensors experiments*. 1–8.
- Aziz, A., & Zahra, A. (2023). International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING Prototype Design of Landfill Gas Pipe Leak Monitoring System Based on Microcontroller Node MCU ESP8266 with the Internet of Things Method. *Original Research Paper International Journal of Intelligent Systems and Applications in Engineering IJISAE*, 11(2), 133–147. www.ijisae.org
- Boyd, D. R. (2019). The human right to breathe clean air. *Annals of Global Health*, 85(1), 1–2. <https://doi.org/10.5334/aogh.2646>
- BPS. (2018). Data Penduduk Kota Jambi
- Budde, M., El Masri, R., Riedel, T., & Beigl, M. (2013). Enabling low-cost particulate matter measurement for participatory sensing scenarios. *Proceedings of the 12th International Conference on Mobile and Ubiquitous Multimedia, MUM 2013, Mum*. <https://doi.org/10.1145/2541831.2541859>
- Chow, J. C., Lowenthal, D. H., Chen, L. W. A., Wang, X., & Watson, J. G. (2015). Mass reconstruction methods for PM2.5: a review. *Air Quality, Atmosphere and*

- Health*, 8(3), 243–263. <https://doi.org/10.1007/s11869-015-0338-3>
- Concas, F., Mineraud, J., Lagerspetz, E., Varjonen, S., Liu, X., Puolamäki, K., Nurmi, P., & Tarkoma, S. (2019). *Low-Cost Outdoor Air Quality Monitoring and Sensor Calibration: A Survey and Critical Analysis*. <http://arxiv.org/abs/1912.06384>
- Council of the European Union. (2008). Directive 2008/50/ec of the european parliament and of the council of 21 may 2008 on ambient air quality and cleaner air for europe. *Official Journal of the European Union*, 1–44.
- Datasheet Sharp GP2Y1010AUOF*. (2006). 1–9.
- De Donno, A., De Giorgi, M., Bagordo, F., Grassi, T., Idol, A., Serio, F., Ceretti, E., Feretti, D., Villarini, M., Moretti, M., Carducci, A., Verani, M., Bonetta, S., Pignata, C., Bonizzoni, S., Bonetti, A., & Gelatti, U. (2018). Health risk associated with exposure to PM10 and benzene in three Italian towns. *International Journal of Environmental Research and Public Health*, 15(8), 1–13. <https://doi.org/10.3390/ijerph15081672>
- Dinas Lingkungan Hidup, P. J. (2023). Laporan Kinerja DINAS LINGKUNGAN HIDUP PROVINSI JAMBI TAHUN 2023. *Laporan Kinerja*.
- Drijana, & Zahara, A. (2024). *Estimasi Nilai Konsentrasi Rata-Rata Tahunan PM 2 . 5 dari Data Terbatas*. 18(1), 1–14.
- Fatkhurrahman, J. A., Juliasari, I. R., & Zen, N. (2016). Penentuan Konsentrasi Partikulat Berbasis Low Cost Particulate Sensor Pada Modifikasi Teknologi Wetscrubber Particulate Concentration Determination With Low Cost Particulate Sensor on Wetscrubber Modification Technology. *Jurnal Riset Industri*, 10(2), 107–113.
- Fatoni, A., Nugroho, D. D., & Irawan, A. (2015). Rancang Bangun Alat Pembelajaran Microcontroller Berbasis ATmega 328 di Universitas Serang Raya. *Jurnal PROSISKO*, 2(1), 10–18.
- Greenstone, M., & Fan, C. Q. (2018). Introducing the Air Quality Life Index:Twelve Facts about Particulate Air Pollution, Human Health, and Global Policy. *Air Quality Life Index, November*, 1–34.
- Hais, Y. R. (2017). *Desain Strategi Pengaturan Torsi Hybrid Electric Vehicle (HEV) dengan Memaksimalkan Kerja Brushless DC Motor Menggunakan Fuzzy-PI Control*. 104. <http://repository.its.ac.id/42430/>
- Hartanto, S., & Dwi, P. A. (2021). Rancang Bangun Sistem Absensi Dengan Pemeriksaan Suhu Tubuh Berbasis Arduino Atmega2560. 09(3).

- Idaho, D. of E. Q. (2023). *Low-Cost Air Sensors*.
- Imron, A. B., & CES, D. I. C. P. D. (2016). *SENSOR-SENSOR PEMANTAU MENGGUNAKAN ARDUINO UNO DAN ESP8266 DIUNGGAH KE THINGSPEAK SERVER UNTUK PENGUKURAN GAS DI TEMPAT PEMBUANGAN AKHIR MANGGAR BALIKPAPAN*. 1(1), 28–42.
- Inzaghi, A. K., Faisaldinatha, A., & Adhavian, I. A. (2022). Monitoring Partikel Debu Di Area Kampus Universitas Islam Indonesia Berbasis Internet Of Things. *Universitas Islam Indonesia*, 17524066.
- Junaidi, & Prabowo, Y. D. (2018). *Project sistem kendali elektronik*.
- Junistiawan, L. R. S., Natsir, A., & Yadnya, M. S. (2019). *Sistem Telemetri Untuk Monitoring Energi Terbarukan Dari Kincir Angin Berbasis Internet Of Things (Iot)*. 1–11.
- Kampa, M., & Castanas, E. (2008). Human health effects of air pollution. *Environmental Pollution*, 151(2), 362–367. <https://doi.org/10.1016/j.envpol.2007.06.012>
- Kartikasari, D. (2020). Analisis Faktor-Faktor Yang Mempengaruhi Level Polusi Udara Dengan Metode Regresi Logistik Biner. *MATHunesa: Jurnal Ilmiah Matematika*, 8(1), 55–59. <https://doi.org/10.26740/mathunesa.v8n1.p55-59>
- Kushwaha Meenakshi, Mehta Sumi, Arora Pooja, Dye Timothy, & Matte Thomas. (2020). *Penggunaan Terintegrasi Sensor Berbiaya Rendah untuk Memperkuat Manajemen Kualitas Udara*. <http://creativecommons.org>.
- L Morawska, Thai, P., Liu, X., Asumadu-Sakyi, A., Ayoko, G., Bartonova, A., Bedini, A., Chai, F., Christensen, B., Dunbabin, M., Gao, J., Hagler, G., Jayaratne, R., Kumar, P., Lau, A., Louie, P., Mazaheri, M., Ning, Z., Motta, N., ... Williams, R. (2018). Applications of low-cost sensing technologies for air quality monitoring and exposure assessment: How far have they gone? *Environment International*, 116, 286–299. <https://doi.org/10.1016/j.envint.2018.04.018>. Submit
- Lestari, R. A., Handika, R. A., & Purwaningrum, S. I. (2019). Analisis Risiko Karsinogenik Paparan PM10 Terhadap Pedagang di Kelurahan Pasar Jambi. *Dampak*, 16(2), 59. <https://doi.org/10.25077/dampak.16.2.59-65.2019>
- Levy Zamora, M., Buehler, C., Datta, A., Gentner, D. R., & Koehler, K. (2023). Identifying optimal co-location calibration periods for low-cost sensors. *Atmospheric Measurement Techniques*, 16(1), 169–179. <https://doi.org/10.5194/amt-16-169-2023>
- Met One Instrument. (2011). E-SAMPLER-9800 MANUAL Rev M. *E-Sampler*

- Particulate Monitor Operation Manual*, 1–58.

Misiukiewicz-Stepien, P., & Paplinska-Goryca, M. (2021). Biological effect of PM10 on airway epithelium-focus on obstructive lung diseases. *Clinical Immunology*, 227(May), 108754. <https://doi.org/10.1016/j.clim.2021.108754>

Negoro, N. A., Chandra, I., & Handayani, I. P. (2020). *Rancang Bangun Alat Ukur Konsentrasi Massa Pm2.5 Berbasis Optik Design and Implementation of an Optical-Based Detector Pm2.5 Mass Concentration*. 7(2), 4490–4498.

Pasha, S. (2016). Thingspeak Based Sensing and Monitoring Systemfor IoT with Matlab Analysis. *International Journal of New Technology and Research (IJNTR)*, 2(6), 19–23. www.ijntr.org

Prasanna, M., Iyapparaja, M., kumar, M. V., Ramamurthy, B., & Manivannan, S. S. (2019). An Intelligent Weather Monitoring System using Internet of Things. *International Journal of Recent Technology and Engineering (IJRTE)*, 8(4), 4531–4536. <https://doi.org/10.35940/ijrte.d8464.118419>

Pujiautti, P., Soemirat, J., & Dirgawati, M. (2013). Karakteristik Anorganik PM10 di Udara Ambien terhadap Mortalitas dan Morbiditas pada Kawasan Industri di Kota Bandung. *Jurnal Institut Teknologi Nasional*, 1(1), 35–45. file:///C:/Users/masyharenia/Downloads/document (4).pdf

Purbakawaca, R. (2016). *Rancang Bangun Alat Ukur Particulate Matter < 10 μ M (PM 10) Berbasis Cyclone Separator dan Particle Counter*.

Purbakawaca, R., & Fauzan, S. A. (2022). Rancang Bangun Sistem Pemantauan Kualitas Udara Dalam Ruangan Berbiaya Rendah Berbasis IoT. *Jurnal Talenta Sipil*, 5(1), 118. <https://doi.org/10.33087/talentasipil.v5i1.104>

Purbakawaca, R., & Sawitri, K. N. (2019). Sensor Debu GP2Y1010AU0F. *Gp2Y1010Auof* *Dust* *Sensor*, 1–6. <https://decabotelectronic.com/2019/03/18/detektor-konsentrasi-debu/%0AApa>

Purbakawaca, R., Sawitri, K. N., Rido, M., Irvan, A., Kumala, O. L., Nurjaman, J., Zebua, H. K., Andini, E. F., & Amalia, L. (2017). Rancang Bangun Alat Ukur Pm10 Rendah Biaya Menggunakan Sensor Debu Gp2Y1010Au0F. *Journal Online of Physics*, 3(1), 6–13. <https://doi.org/10.22437/jop.v3i1.4390>

Saputra, F. A., & Wahyono, I. D. (2018). “ WATERSOR ” (Waterlogging Sensor) Monitoring Genangan Air di Kota Malang Berbasis ThingSpeak Framework. *Seminar Nasional Ilmu Komputer Dan Teknologi Informasi*, 3(2), 165–168.

Saputra, F., Ryana Suchendra, D., & Ikhsan Sani, M. (2020). Implementasi Sistem

- Sensor Dht22 Untuk Menstabilkan Suhu Dan Kelembapan Berbasis Mikrokontroller Nodemcu Esp8266 Pada Ruangan Implementation of Dht22 Sensor System To Stabilize Temperature and Humidity Based on Microcontroller Nodemcu Esp8266 in Space. *Proceeding of Applied Science*, 6(2), 1977.
- Snyder, E. G., Watkins, T. H., Solomon, P. A., Thoma, E. D., Williams, R. W., Hagler, G. S. W., Shelow, D., Hindin, D. A., Kilaru, V. J., & Preuss, P. W. (2013). The changing paradigm of air pollution monitoring. *Environmental Science and Technology*, 47(20), 11369–11377. <https://doi.org/10.1021/es4022602>
- Sugiyono. (2013). *Metodologi Penelitian Kuantitatif, Kualitatif dan R & D*.
- Suprayogi, I. (2012). *MODEL PREDIKSI LIKU KALIBRASI MENGGUNAKAN PENDEKATAN JARINGAN SARAF TIRUAN (JST) (Studi Kasus : Sub DAS Siak Hulu). 2011*, 1–18.
- Suryantoro, H. (2019). Prototype Sistem Monitoring Level Air Berbasis Labview dan Arduino Sebagai Sarana Pendukung Praktikum Instrumentasi Sistem Kendali. *Indonesian Journal of Laboratory*, 1(3), 20. <https://doi.org/10.22146/ijl.v1i3.48718>
- SUSANA, R., ICHWAN, M., & PHARD, S. AL. (2016). Penerapan Metoda Serial Peripheral Interface (SPI) pada Rancang Bangun Data Logger berbasis SD card. *ELKOMIKA*, 4(2), 208. <https://doi.org/10.26760/elkomika.v4i2.208>
- Thermo Fisher Scientific. (2007). *Manual Teom ® 1405*. 190.
- TIPHON. (1999). *Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON); General aspects of Quality of Service (QoS)*. 1, 1–37.
- Vaishali, Verma, G., & Das, R. M. (2023). Influence of Temperature and Relative Humidity on PM2.5 Concentration over Delhi. *Mapan - Journal of Metrology Society of India*, 38(3), 759–769. <https://doi.org/10.1007/s12647-023-00656-8>
- Wang, J., & Ogawa, S. (2015). Effects of meteorological conditions on PM2.5 concentrations in Nagasaki, Japan. *International Journal of Environmental Research and Public Health*, 12(8), 9089–9101. <https://doi.org/10.3390/ijerph120809089>
- Xing, Y. F., Xu, Y. H., Shi, M. H., & Lian, Y. X. (2016). The impact of PM2.5 on the human respiratory system. *Journal of Thoracic Disease*, 8(1), E69–E74. <https://doi.org/10.3978/j.issn.2072-1439.2016.01.19>