

## DAFTAR PUSTAKA

- Agustina, F., & Ardiansyah, Z. . (2020). Identifikasi Citra Daging Ayam Kampung dan Broiler Menggunakan Metode GLCM dan Klasifikasi-NN. *Jurnal Ilmiah Informasi Komputer Akuntansi Dan Manajemen*, 16, 25–36.  
<https://doi.org/https://doi.org/10.53845/infokam.v16i1.196>
- Aljaberi, E. (2020). *Introduction to optoelectronic devices*.
- Amrullah, & Katsir, I. (2004). *Nutrisi Ayam Broiler* (2nd ed.). Lembaga Satu Gunung Budi.
- Arduino. (2018). *Arduino*. Arduino.Cc. <https://www.arduino.cc>
- Bageshwar, D. V., Pawar, A. S., Khanvilkar, V. V., & Kadam, V. J. (2010). Photoacoustic Spectroscopy and Its Applications – A Tutorial Review. *Eurasian Journal of Analytical Chemistry*, 5(December 2009), 187–203.  
<http://www.eurasianjournals.com/index.php/ejac/article/view/290>
- Barbin, D. F., Mastelini, S. M., Barbon, S., Campos, G. F. C., Barbon, A. P. A. C., & Shimokomaki, M. (2016). Digital image analyses as an alternative tool for chicken quality assessment. *Biosystems Engineering*, 144, 85–93.  
<https://doi.org/10.1016/j.biosystemseng.2016.01.015>
- Bell, A. G. (1880). On the Production and Reproduction of Sound by Light. *American Journal of Science*, s3-20(118), 305–324.  
<https://doi.org/10.2475/ajs.s3-20.118.305>
- Blakely, J., B. (1991). *Ilmu Peternakan* (B. Srigandono (ed.); 4th ed.). Gadjah Mada University Press.
- Bowen, T., Nasoni, R. L., Pifer, A. E., & Sembroski, G. H. (1981). Some Experimental Results on the Thermoacoustic Imaging of Tissue Equivalent Phantom Materials. *1981 Ultrasonics Symposium*, 823–827.  
<https://doi.org/10.1109/ULTSYM.1981.197738>

- BPS. (2023). *Statistik Konsumsi Pangan Tahun 2023*. Pusat Data dan Sistem Informasi Pertanian.  
[https://satudata.pertanian.go.id/assets/docs/publikasi/Buku\\_Statsitik\\_Konsumsi\\_Pangan\\_2023.pdf](https://satudata.pertanian.go.id/assets/docs/publikasi/Buku_Statsitik_Konsumsi_Pangan_2023.pdf)
- BSN. (2010). *Ayam Broiler* (Dewan Standarisasi Nasional (ed.)).
- De Montigny, E. (2011). *Photoacoustic Tomography: Principles and Applications*. *Departement of Physics Engineering, Polytechnic School Montreal, [Preprint]*.
- Farhan, F., & Sujanarko, B. (2022). Pengaruh Frekuensi dan Duty Cycle pada Ripple Tegangan Buck Converter. *Jurnal Ilmiah Kajian Teori Dan Aplikasi Teknik Elektro*, 9(1), 51–61. <https://dielektrika.unram.ac.id>
- Fatima, A., Kratkiewicz, K., Manwar, R., Zafar, M., Zhang, R., Huang, B., Dadashzadeh, N., Xia, J., & Avanaki, K. (Mohammad). (2019). Review of cost reduction methods in photoacoustic computed tomography. *Photoacoustics*, 15, 100137. <https://doi.org/10.1016/j.pacs.2019.100137>
- Fatoni, A., & Rendra, D. B. (2014). Perancangan Prototype Sistem Kendali Lampu Menggunakan Handphone Android Berbasis Arduino. *PROSISKO*, 1(September), 23–29.
- Fowles, G. R., & Cassiday, G. L. (1999). *Analytical Mechanics Seventh Edition*.
- Ganji, B. A., & Majlis, B. Y. (2004). Condenser microphone performance simulation using equivalent circuit method. *2004 IEEE International Conference on Semiconductor Electronics*, 22–29. <https://doi.org/10.1109/SMELEC.2004.1620830>
- Gröhl, J., Schellenberg, M., Dreher, K., & Maier-Hein, L. (2021). Deep Learning for Biomedical Photoacoustic Imaging: A review. *Photoacoustics*, 22, 1–15. <https://doi.org/10.1016/j.pacs.2021.100241>
- Gultom, R., Ilmania, L. A., Rinca, K. F., Maria, Y., Bollyn, F., Luju, M. T., & Achmadi, P. C. (2023). Evaluasi Penambahan Tepung Buah Pare (*Momordica charantia*) Sebagai Imbuhan Pakan Terhadap Kualitas Fisik Dan Kimia Daging

- Ayam Pedaging. *Jurnal Ilmiah Peternakan Terpadu*, 11(2), 82–93.  
<https://doi.org/10.23960/jipt.v11i2.p82-93>
- Gustin Nurdialit, D., Mujtahid Anas, A., & Mitrayana, M. (2023). Photoacoustic microscopy system for biological tissue imaging. *Journal of Physics: Conference Series*, 2498(1), 012016. <https://doi.org/10.1088/1742-6596/2498/1/012016>
- Harianto, S. ., & Transitawuri, F. (2006). Perbandingan Mutu Dan Harga Tablet Amoksisilin 500 Mg Generik Dengan Non Generik Yang Beredar Di Pasaran. *Pharmaceutical Sciences and Research*, 3(3), 127–142.  
<https://doi.org/10.7454/psr.v3i3.3405>
- Hosseinaee, Z., Le, M., Bell, K., & Reza, P. H. (2020). Towards non-contact photoacoustic imaging [review]. *Photoacoustics*, 20, 100207.  
<https://doi.org/10.1016/j.pacs.2020.100207>
- Ishevskiy, A. L., & Davydov, I. A. (2017). FREEZING AS A METHOD OF FOOD PRESERVATION. *Theory and Practice of Meat Processing*, 2(2), 43–59.  
<https://doi.org/10.21323/2414-438X-2017-2-2-43-59>
- Jansen, K., van Soest, G., & van der Steen, A. F. W. (2014). Intravascular Photoacoustic Imaging: A New Tool for Vulnerable Plaque Identification. *Ultrasound in Medicine & Biology*, 40(6), 1037–1048.  
<https://doi.org/10.1016/j.ultrasmedbio.2014.01.008>
- Julianto, R., Anas, A. M., & Mitrayana. (2023, May 1). Characterization of photoacoustic tomography based on 450 nm visible light and its application for detection of formalin fish meat. *11th International Conference on Physics and Its Applications (ICOPIA 2022)*. <https://doi.org/10.1088/1742-6596/2498/1/012015>
- Kim, G. R., Kang, J., Kwak, J. Y., Chang, J. H., Kim, S. Il, Youk, J. H., Moon, H. J., Kim, M. J., & Kim, E.-K. (2014). Photoacoustic Imaging of Breast Microcalcifications: A Preliminary Study with 8-Gauge Core-Biopsied Breast Specimens. *PLoS ONE*, 9(8), e105878.

<https://doi.org/10.1371/journal.pone.0105878>

Koprda, S., Turcani, M., & Balogh, Z. (2012). Modelling, simulation and monitoring the use of LabVIEW. *2012 6th International Conference on Application of Information and Communication Technologies (AICT)*, 1–5.  
<https://doi.org/10.1109/ICAICT.2012.6398529>

Kurniawan, E., Widyaningrum, R., & Mitrayana. (2017). Sistem Fotoakustik Sederhana Berbasis Laser Dioda dan Mikrofon Condenser untuk Pengukuran Konsentrasi Darah. *Risalah Fisika*, *1*(1), 47–51.  
<https://doi.org/10.35895/rf.v1i2.63>

Leksono, J. W., Humaidillah, K. W., Indahwati, E., Yanuansa, N., & Ummah, I. (2019). Modul Belajar Arduino Uno. In *Universitas Hasyim Asyari*.  
[http://scioteca.caf.com/bitstream/handle/123456789/1091/RED2017-Eng-8ene.pdf?sequence=12&isAllowed=y%0Ahttp://dx.doi.org/10.1016/j.regsciurbeco.2008.06.005%0Ahttps://www.researchgate.net/publication/305320484\\_SISTEM\\_PEMBETUNGAN\\_TERPUSAT\\_STRATEGI\\_MELESTARI](http://scioteca.caf.com/bitstream/handle/123456789/1091/RED2017-Eng-8ene.pdf?sequence=12&isAllowed=y%0Ahttp://dx.doi.org/10.1016/j.regsciurbeco.2008.06.005%0Ahttps://www.researchgate.net/publication/305320484_SISTEM_PEMBETUNGAN_TERPUSAT_STRATEGI_MELESTARI)

Miklós, A., Schäfer, S., & Hess, P. (1999). Photoacoustic Spectroscopy, Theory. In *Encyclopedia of Spectroscopy and Spectrometry* (pp. 2151–2158). Elsevier.  
<https://doi.org/10.1016/B978-0-12-374413-5.00360-2>

Mitrayana, Wasono, M. A. J., & Ikhsan, M. R. (2014). *Spektroskopi Fotoakustik Laser dan Aplikasinya*. Gadjah Mada University Press.

Munadi, M., Syukri, A., Setiawan, J. D., & Ariyanto, M. (2018). Rancang-bangun Prototipe Mesin CNC Laser Engraving Dua Sumbu Menggunakan Diode Laser. *Jurnal Teknik Mesin Indonesia*, *13*(1), 32–37.  
<https://doi.org/10.36289/jtmi.v13i1.88>

Oraevsky, A. A., Andreev, V. A., Karabutov, A. A., Fleming, R. D., Gatalica, Z., Singh, H., & Esenaliev, R. O. (1999). <title>Laser optoacoustic imaging of the breast: detection of cancer angiogenesis</title>. *Proceedings of SPIE - The International Society for Optical Engineering*, 352–363.  
<https://doi.org/10.1117/12.356829>

- Perdana, O. S., Riyanti, R., & Septinova, D. (2016). Efektivitas Tepung Bunga Kecombrang (*Nicolaila speciosa* Horan) sebagai Pengawet terhadap Daya Suka Organoleptik Daging Broiler. *Jurnal Ilmiah Peternakan Terpadu*, 4(1), 29–35. <https://doi.org/https://dx.doi.org/10.23960/jipt.v4i1.1248>
- Pestariati. (2008). Pengaruh Lama Penyimpanan Daging Ayam pada Suhu Refrigerator terhadap Jumlah Total Kuman, Salmonella sp, Kadar Protein dan Derajat Keasaman. *Jurnal Biosains Pascasarjana*.
- Petermann, K. (2012). *Laser Diode Modulation and Noise*. Dordrecht: Kluwer Academic Publishers.
- Pospiech, M., & Liu, S. (2004). Laser Diodes an Introduction. In *Annual Review of Materials Science*. University of Hannover. <https://doi.org/10.1146/annurev.matsci.28.1.125>
- Pratama, A. W., Setiasih, I. S., & Moody, S. D. (2019). Perbedaan Penurunan Nilai  $a^*$ ,  $b^*$  dan  $L^*$  pada Daging Ayam Broiler (*Gallus domesticus*) Akibat Ozonasi dan Perebusan. *Pasundan Food Technology Journal*, 6(2), 86–90. <https://doi.org/10.23969/pftj.v6i2.1327>
- Rahman, H. A., & Riyadi, S. (2018). Pengaruh Duty Cycle Terhadap Perpindahan Energi Pada Motor BLDC (Brushless Direct Current) Saat Pengereman Regeneratif Berbasis Dspic30F4012. *Seminar Nasional Instrumentasi, Kontrol, Dan Otomasi (SNIKO)*, 247–254. <https://doi.org/10.5614/sniko.2018.29>
- Ricketti, B. (2015). *Diode Laser Characteristics*. Heriot Watt University.
- Rosyidi, D., Susilo, A., & Muhbianto, R. (2009). Pengaruh Penambahan Limbah Udag Terfermentasi *Aspergillus niger* Pada Pakan Terhadap Kualitas Fisik Daging Ayam Broiler. *Jurnal Ilmu Dan Teknologi Hasil Ternak*, 4(1), 1–10.
- Sanjaya, E. R., Muningsar, J., & Setiawan, A. (2022). Uji Coba Metode Pencitraan Multimodalitas Ultrasonografi dan Fotoakustik. *Jurnal Fisika : Fisika Sains Dan Aplikasinya*, 7(1), 8–14. <https://doi.org/10.35508/fisa.v7i1.6680>
- Sembor, S. M., & Tinangon, R. M. (2022). Industri Pengolahan Daging. In *CV*.

*PATRA MEDIA GRAFINDO BANDUNG*. CV. PATRA MEDIA GRAFINDO BANDUNG.

[https://books.google.co.id/books?id=t3zPqTnRjX0C&dq=wrong+diet+pills&source=gbs\\_navlinks\\_s](https://books.google.co.id/books?id=t3zPqTnRjX0C&dq=wrong+diet+pills&source=gbs_navlinks_s)

Setiawan, A. (2022). Estimation of Sound Source Direction Using Fourier Transformation Method with Arduino. *JTECS : Jurnal Sistem Telekomunikasi Elektronika Sistem Kontrol Power Sistem Dan Komputer*, 2(2), 111–122. <https://doi.org/10.32503/jtecs.v2i2.2771>

Silalahi, H. M. (2017). Sistem Citra Fotoakustik Sederhana Berbasis Laser Dioda dan Mikrofon Condenser. In U. FMIPA (Ed.), *FMIPA, UGM*. [https://books.google.co.id/books?id=D9\\_YDwAAQBAJ&pg=PA369&lpg=PA369&dq=Prawirohardjo,+Sarwono.+2010.+Buku+Acuan+Nasional+Pelayanan+Kesehatan++Maternal+dan+Neonatal.+Jakarta+:+PT+Bina+Pustaka+Sarwono+Prawirohardjo.&source=bl&ots=riWNmMFyEq&sig=ACfU3U0HyN3I](https://books.google.co.id/books?id=D9_YDwAAQBAJ&pg=PA369&lpg=PA369&dq=Prawirohardjo,+Sarwono.+2010.+Buku+Acuan+Nasional+Pelayanan+Kesehatan++Maternal+dan+Neonatal.+Jakarta+:+PT+Bina+Pustaka+Sarwono+Prawirohardjo.&source=bl&ots=riWNmMFyEq&sig=ACfU3U0HyN3I)

Tasmara, F. A., Wahyuni, E., Silalahi, H. M., Widyaningrum, R., Setiawan, A., & Mitrayana. (2024). Photoacoustic Imaging using Diode Laser for Soft Tissue Visualization. *Journal of Physics: Conference Series*. <https://doi.org/10.1088/1742-6596/2696/1/012016>

Tasmara, F. A., Widyaningrum, R., Setiawan, A., & Mitrayana, M. (2023). Photoacoustic imaging of hidden dental caries using visible–light diode laser. *Journal of Applied Clinical Medical Physics*, 24(5). <https://doi.org/10.1002/acm2.13935>

Wang, L. V., & Hu, S. (2012). Photoacoustic Tomography: In Vivo Imaging from Organelles to Organs. *National Institutes of Health*, 1458–1462. <https://doi.org/10.1126/science.1216210>

Widyaningrum, R., Gracea, R. S., Agustina, D., Mudjosemedi, M., & Mitrayana. (2017). *Influence of Diode Laser Intensity Modulation on Photoacoustic Image Quality for Oral Soft Tissue Imaging*.

<https://doi.org/https://doi.org/10.48550/arXiv.1712.01832>

- Widyaningrum, R., Sola Gracea, R., Agustina, D., Mudjosemedi, M., Mitrayana, M., & Miyosi Silalahi, H. (2020). The Influence of Diode Laser Intensity Modulation on Photoacoustic Image Quality for Oral Soft Tissue Imaging. *Journal of Lasers in Medical Sciences*, *11*(Suppl 1), S92–S100. <https://doi.org/10.34172/jlms.2020.S15>
- Xu, M., & Wang, L. V. (2006). Photoacoustic Imaging in Biomedicine. *Review of Scientific Instruments*, *77*(4). <https://doi.org/10.1063/1.2195024>
- Yao, Q., Ding, Y., Liu, G., & Zeng, L. (2017). Low-cost photoacoustic imaging systems based on laser diode and light-emitting diode excitation. *Journal of Innovative Optical Health Sciences*, *10*(4), 1730003. <https://doi.org/10.1142/S1793545817300038>
- Zhou, G. H., Xu, X. L., & Liu, Y. (2010). Preservation Technologies for Fresh Meat – A review. *Meat Science*, *86*(1), 119–128. <https://doi.org/10.1016/j.meatsci.2010.04.033>