

DAFTAR PUSTAKA

- [1] Badan Pusat Statistik, *Konsumsi Kalori dan Protein Penduduk Indonesia dan Provinsi, Maret 2023*. Jakarta: BPS, 2023.
- [2] Kementerian Pertanian RI, *Statistik Konsumsi Makanan*. Jakarta: Kementerian Pertanian, 2024.
- [3] H. Purwaningsih et al., “The effect of different storage times and methods on the chemical and organoleptic properties of white cooked rice and black cooked rice,” *AIMS Agric. Food*, vol. 7, no. 1, pp. 184–196, 2022. [Online]. Available: <https://doi.org/10.3934/agrfood.2022012>
- [4] T. Tang, M. Xu, and Y. Yang, “Influence of storage time on the flavor and texture of egg yolk gel,” *Food Chem.: X*, vol. 27, Art. no. 102513, 2025. [Online]. Available: <https://doi.org/10.1016/j.fochx.2025.102513>
- [5] X. Wang et al., “Effect of dietary protein sources and storage temperatures on egg internal quality of stored shell eggs,” *Anim. Nutr.*, vol. 1, no. 4, pp. 299–304, 2015. [Online]. Available: <http://dx.doi.org/10.1016/j.aninu.2015.12.003>
- [6] A. Pandey, “Quality of fried broiler chicken leg muscles stored at different temperatures,” *J. Food Process. Preserv.*, vol. 34, no. 2, pp. 215–223, 2010. [Online]. Available: <https://doi.org/10.1007/s13197-010-0076-3>
- [7] C. Németh et al., “Possibilities in storing boiled whole eggs,” *Acta Alimentaria*, vol. 44, no. 1, pp. 66–72, 2012.
- [8] D. Silvia et al., “Analisis kadar pH dan organoleptik daging ayam dengan metode vakum dan non-vakum,” *J. Teknol. Makanan dan Hasil Pertanian*, vol. 17, no. 3, pp. 211–219, 2022. [Online]. Available: <https://doi.org/10.14710/metana.v18i1.40661>
- [9] I. Gusriani et al., *Ilmu Bahan Pangan*. Padang: CV Hei Publishing Indonesia, 2024.
- [10] Badan Pengawas Obat dan Makanan RI, *Peraturan Badan Pengawas Obat dan Makanan Nomor 21 Tahun 2021 tentang Penerapan Sistem Jaminan Keamanan dan Mutu Pangan Olahan di Sarana Peredaran*. Jakarta: BPOM RI, 2021.
- [11] Badan Pengawas Obat dan Makanan RI, *Pedoman Kriteria Cemaran pada Pangan Siap Saji dan Pangan Industri Rumah Tangga*. Jakarta: Direktorat Standardisasi Produk Pangan, 2012.
- [12] H. T. Lawless and H. Heymann, *Sensory Evaluation of Food: Principles and Practices*. New York: Springer, 2010.
- [13] M. C. Meilgaard, G. V. Civille, and B. T. Carr, *Sensory Evaluation Techniques*, 5th ed. Boca Raton, FL: CRC Press, 2016.
- [14] W. C. Frazier and D. C. Westhoff, *Food Microbiology*, 5th ed. New Delhi, India: McGraw Hill Education, 2014.
- [15] H. D. Belitz, W. Grosch, and P. Schieberle, *Food Chemistry*, 4th rev. and ext. ed. Berlin, Germany: Springer-Verlag, 2009.
- [16] J. M. Jay, M. J. Loessner, and D. A. Golden, *Modern Food Microbiology*, 7th ed. New York: Springer, 2005.

- [17] Y. Tahara, “Electronic tongues – A review,” *Sens. Actuators B: Chem.*, vol. 179, pp. 31–39, 2013.
- [18] M. Podražka, E. Bączyńska, M. Kundys, P. S. Jeleń, and E. W. Nery, “Electronic tongue—A tool for all tastes?” *Sensors*, vol. 18, no. 1, pp. 1–25, 2018.
- [19] Y. Cho, “Recent applications of potentiometric electronic tongue and electronic nose in sensory evaluation,” *Trends Food Sci. Technol.*, vol. 125, pp. 223–235, 2022.
- [20] S. S. Nielsen, *Food Analysis*, 5th ed. Cham, Switzerland: Springer, 2017.
- [21] S. Damodaran and K. L. Parkin, *Fennema's Food Chemistry*, 5th ed. Boca Raton: CRC Press, 2017.
- [22] N. S. Mohammad Sabri *et al.*, “Identification of specific spoilage organisms (SSOs) of cooked rice stored at 30 °C associated with sensory, pH, and volatile compound changes,” *Food Res.*, vol. 8, no. 1, pp. 265–276, 2024. [Online]. Available: <https://doi.org/10.1093/fqsafe/fyad065>
- [23] N. Yang *et al.*, “Evaluation of conductivity and moisture content of eggs during storage by using transformer method,” *J. Food Eng.*, vol. 147, pp. 56–63, 2015. [Online]. Available: <https://doi.org/10.1016/j.jfoodeng.2015.01.014>
- [24] O. Ovchynnikova *et al.*, “Relationship between pH values and electrical conductivity, their usability in chicken breast meat evaluation as marker post mortal quality,” *Food Anal. Methods*, vol. 13, no. 2, pp. 275–284, 2020.
- [25] S. Gravina, *Human Biology of Taste*. London, UK: Academic Press, 2013.
- [26] M. Dzulkurnian *et al.*, “A review on impedimetric and voltammetric analysis based on polypyrrole conducting polymers for electrochemical sensing applications,” *J. Electroanal. Chem.*, vol. 895, Art. no. 115439, 2021.
- [27] M. Madadelahi *et al.*, “Electrochemical sensors: Types, applications, and the novel impacts of vibration and fluid flow for microfluidic integration,” *Sens. Actuators Rep.*, vol. 7, Art. no. 100226, 2025.
- [28] M. L. R. Méndez, Ed., *Electronic Noses and Tongues in Food Science*. London, UK: Academic Press, 2016.
- [29] T. Titova and V. Nachev, “Electronic tongue in the food industry,” *Food Sci. Appl. Biotechnol.*, vol. 3, no. 1, pp. 71–76, 2020. [Online]. Available: <https://doi.org/10.30721/fsab2020.v3.i1>
- [30] J. E. Hall and A. C. Guyton, *Guyton and Hall Textbook of Medical Physiology*, 13th ed. Philadelphia, PA: Elsevier, 2016.
- [31] R. Barragán *et al.*, “Bitter, sweet, salty, sour and umami taste perception decreases with age: Sex-specific analysis, modulation by genetic variants and taste-preference associations in 18 to 80 year-old subjects,” *Front. Aging Neurosci.*, vol. 10, Art. no. 402, 2018.
- [32] D. A. Skoog, F. J. Holler, and S. R. Crouch, *Principles of Instrumental Analysis*, 6th ed. Belmont, CA: Thomson Brooks/Cole, 2007.
- [33] D. Patranabis, *Sensors and Transducers*, 2nd ed. New Delhi: PHI Learning, 2003.
- [34] Control.com, “Colorimetric and potentiometric pH measurement,” in *Introduction to Continuous Analytical Measurement*. [Online]. Available:

- <https://control.com/textbook/continuous-analytical-measurement/ph-measurement/>. [Accessed: Nov. 27, 2025].
- [35] Z. Li *et al.*, “Capsule design for blue light therapy against *Helicobacter pylori*,” *PLoS ONE*, vol. 11, no. 1, p. e0147531, 2016. [Online]. Available: <https://doi.org/10.1371/journal.pone.0147531>
- [36] Control.com, “Measuring electrical conductivity,” in *Introduction to Continuous Analytical Measurement*. [Online]. Available: <https://control.com/textbook/continuous-analytical-measurement/conductivity-measurement/>. [Accessed: Nov. 27, 2025].
- [37] P. Atkins and J. de Paula, *Atkins' Physical Chemistry*, 8th ed. New York, NY: W. H. Freeman, 2006.
- [38] *Water quality — Determination of electrical conductivity*, ISO 7888:1985, International Organization for Standardization, Geneva, Switzerland, 1985.
- [39] *Soil Sensor User Manual: NPK Type (5-Pin Probe)*, Version V1.2.
- [40] Maxim Integrated, “Low-power, slew-rate-limited RS-485/RS-422 transceivers,” MAX481/MAX483/MAX485/MAX487–MAX491/MAX1487 Datasheet 19-0122, Rev. 10, Sep. 2014.
- [41] Cypress Semiconductor, “CY8CKIT-059 PSoC® 5LP prototyping kit guide,” Doc. No. 001-96498 Rev. G, San Jose, CA.
- [42] B. R. Mendes, D. M. Shimabukuro, M. Uber, and K. T. Abagge, “Critical assessment of the pH of children’s soap,” *J. Pediatr.*, vol. 92, no. 3, pp. 290–295, 2016. [Online]. Available: <https://doi.org/10.1016/j.jpeds.2015.08.009>
- [43] D. Arziyah, L. Yusmita, dan R. Wijayanti, “Analisis Mutu Organoleptik Sirup Kayu Manis dengan Modifikasi Perbandingan Konsentrasi Gula Aren dan Gula Pasir,” *Jurnal Hasil Penelitian dan Pengkajian Ilmiah Eksakta*, vol. 1, no. 2, 2022, [Online]. Available: <https://doi.org/10.47233/jppie.v1i2>.
- [44] S. S. Adera, N. Mariyani, dan F. F. Eddy, “Screening Panelis Internal di PT Foodex Inti Ingredients,” *Jurnal Sains Terapan: Wahana Informasi dan Alih Teknologi Pertanian*, vol. 12, no. 2, pp. 49–59, 2022, doi: 10.29244/jtsv.12.2.49-59.
- [45] R. R. A. Rahmadhani dan K. Fibrianto, “Proses Penyiapan Mahasiswa sebagai Panelis Terlatih dalam Pengembangan Lexicon Susu Skim UHT dan Susu Kaya Lemak UHT,” *Jurnal Pangan dan Agroindustri*, vol. 4, no. 1, pp. 190–200, Jan. 2016.
- [46] J. Bos, C. Krembs, and S. Albertson, “Quality Assurance for Long-Term Marine Water Column pH Data,” Washington State Department of Ecology, Olympia, WA, USA, Publication No. 16-03-042, Dec. 2016.
- [47] U.S. Food and Drug Administration, *Approximate pH of Foods and Food Products*, Center for Food Safety and Applied Nutrition, Apr. 2007.
- [48] Y.-Y. Kim, S.-J. Park, J.-S. Kim, dan H.-S. Shin, “Development of freshness indicator for monitoring chicken breast quality and freshness during storage,” *Food Science and Biotechnology*, vol. 31, no. 3, pp. 377–385, 2022, [Online]. Available: <https://doi.org/10.1007/s10068-022-01034-x>.
- [49] Hajrawati, F. M. Fadliah, Wahyuni, dan I. I. Arief, “Kualitas Fisik, Mikrobiologis, dan Organoleptik Daging Ayam Broiler pada Pasar Tradisional

- di Bogor,” *Jurnal Ilmu Produksi dan Teknologi Hasil Peternakan*, vol. 4, no. 3, pp. 386–389, Okt. 2016.
- [50] A. Kovac, “Characterization of the Calibration Results of Glass pH-Meters Using Certified Buffer Solutions pH 4, 7 and 10,” *International Journal of Applied and Innovative Research*, 2023.
- [51] S. Y. T. Chiam, “On Calibration of pH Meters,” *Journal of Electrochemical Science*, vol. 14, pp. 12–20, 2005.
- [52] A. Badruddin and M. Supratman, “Penentuan Ketidakpastian Pengukuran pH Air Gambut Menggunakan Buffer Bersertifikat pH 4, 7, dan 10,” *Jurnal Pengukuran Nasional*, vol. 5, no. 2, 2025.
- [53] P. K. Rao, “Modification in pH measurements for getting accurate pH values irrespective of aging and drift in sensors,” *International Journal of ChemTech Research*, vol. 8, no. 3, 2016.
- [54] S. K. Pal, *Methods of Soil & Plant Analysis*, New India Publishing Agency, 2019.
- [55] M. R. Carter and E. G. Gregorich, *Soil Sampling and Methods of Analysis*, 2nd ed., CRC Press/Taylor & Francis, 2007.
- [56] *Manual for Soil and Water Analysis*, SciSpace, [Online]. Available: <https://scispace.com/pdf/manual-for-soil-and-water-analysis-20f7rq516p.pdf>. [Accessed: 08-Dec-2025].
- [57] M. A. Muflikhun and Jamasri, *Moisture (Kelembapan): Konsep-Pengukuran dan Aplikasi*, UGM Press, 2024.
- [58] Bard, A. J. and Faulkner, L. R. *Electrochemical Methods: Fundamentals and Applications*. Wiley, 2001.