

## DAFTAR PUSTAKA

- A Gafar, P. A. G. (2018). PROSES PENGINSTANAN AGLOMERASI KERING DAN PENGARUHNYA TERHADAP SIFAT FISIKO KIMIA KOPI BUBUK ROBUSTA (*Coffea robusta Lindl. Ex De Will.*). *Jurnal Dinamika Penelitian Industri*, 29(2), 163. <https://doi.org/10.28959/jdpi.v29i2.3745>
- Abah, C. R., Ishiwu, C. N., Obiegbuna, J. E., & Oladejo, A. A. (2020). Sorghum Grains: Nutritional Composition, Functional Properties and Its Food Applications. *European Journal of Nutrition & Food Safety, June*, 101–111. <https://doi.org/10.9734/ejnf/2020/v12i530232>
- Abdillahi, H., Chabrat, E., Rouilly, A., & Rigal, L. (2013). Influence of citric acid on thermoplastic wheat flour/poly(lactic acid) blends. II. Barrier properties and water vapor sorption isotherms. *Industrial Crops and Products*, 50, 104–111. <https://doi.org/10.1016/j.indcrop.2013.06.028>
- Abreha, K. B., Enyew, M., Carlsson, A. S., Vetukuri, R. R., Feyissa, T., Motlaodi, T., Ng’uni, D., & Geleta, M. (2022). Sorghum in dryland: morphological, physiological, and molecular responses of sorghum under drought stress. *Planta*, 255(1), 1–23. <https://doi.org/10.1007/s00425-021-03799-7>
- Amaranti, R. B., Indarwati, D., & ... (2021). Penerapan Metode Microwave-Assisted Extraction (MAE) Berbasis Green Solvent Senyawa Pektin Albedo Jeruk Bali (*Citrus Maxima*). *Prosiding SNST* ..., 72–76. [https://publikasiilmiah.unwahas.ac.id/index.php/PROSIDING\\_SNST\\_FT/article/view/5371%0Ahttps://publikasiilmiah.unwahas.ac.id/index.php/PROSIDING\\_SNST\\_FT/article/viewFile/5371/3804](https://publikasiilmiah.unwahas.ac.id/index.php/PROSIDING_SNST_FT/article/view/5371%0Ahttps://publikasiilmiah.unwahas.ac.id/index.php/PROSIDING_SNST_FT/article/viewFile/5371/3804)
- Ambasari, I., Sarjana, & Choliq, A. (2009). Rekomendasi Dalam Penetapan Standar Mutu Tepung Ubi Jalar. *Jurnal Teknologi Dan Manajemen Agro Industri*, 5(2), 103–110. <https://doi.org/http://dx.doi.org/10.31153/js.v11i3.676>
- Amoura, H., Mokrane, H., & Nadjemi, B. (2019). Effect of wet and dry milling on the functional properties of whole sorghum grain flour and kafirin. *Journal of Food Science and Technology*, 57(3), 1100–1109. <https://doi.org/10.1007/s13197-019-04145-2>
- Ananda, G. K. S., Myrans, H., Norton, S. L., Gleadow, R., Furtado, A., & Henry, R. J. (2020). Wild Sorghum as a Promising Resource for Crop Improvement. *Frontiers in Plant Science*, 11(July), 1–14. <https://doi.org/10.3389/fpls.2020.01108>
- Armanda, Y., Dwi, W., & Putri, R. (2016). *KARAKTERISTIK FISIKOKIMIA TEPUng SORGUM COKLAT UTUH (WHOLE GRAIN BROWN SORGHUM FLOUR) TERFERMENTASI RAGI TAPE* Physicochemical Characteristics of Whole Grain Brown Sorghum Flour Fermented with a Traditional Mixed Culture called “Ragi Tape.” 4(2), 458–467.
- Aryani, N. F., Khatimah, K., Tajuddin, F. N., Khairunnisa, A. ., Magfira, N., & Aminuddin, N. W. (2022). *Budidaya Tanaman Sorgum*.
- Ayanoglu, M. O., Carlsson, L. A., & Du, E. (2022). Effects of void content on the moisture uptake and mechanical strength of a glass/epoxy composite. *Journal of Composite Materials*, 0(0), 1–12. <https://doi.org/10.1177/00219983221144500>



- Ayu, N. H., & Dicky, A. Y. (2013). Isolasi amilosa dan amilopektin dari pati kentang. *Teknologi Kimia Dan Industri*, 2(3), 57–62. <http://ejournal-s1.undip.ac.id/index.php/jtki>
- Badan Pangan Nasional. (2023). *PERBANDINGAN KANDUNGAN GIZI SORGUM DAN TEPUNG TERIGU*. Dinas Ketahanan Pangan Kabupaten Deli Serdang. <https://ketapang.deliserdangkab.go.id/perbandingan-kandungan-gizi-sorgum-dengan-tepung-terigu.html>
- Badan Standarisasi Nasional. (2022). *SNI 3157-2022 Sorgum* (p. 3).
- Budijanto, S., Sitanggang, A. B., & Murdiati, W. (2011). Karakterisasi Sifat Fisiko-Kimia dan Fungsional Isolat Protein Biji Kecipir (*Psophocarpus tetragonolobus* L.). *Jurnal Teknologi Dan Industri Pangan*, XXII(2), 130–136.
- Cappelli, A., Guerrini, L., Parenti, A., Palladino, G., & Cini, E. (2020). Effects of wheat tempering and stone rotational speed on particle size, dough rheology and bread characteristics for a stone-milled weak flour. *Journal of Cereal Science*, 91, 102879. <https://doi.org/10.1016/j.jcs.2019.102879>
- Célia, J. A., Resende, O., de LIMA, M. S., Correia, J. S., de OLIVEIRA, K. B., & Takeuchi, K. P. (2022). Technological properties of gluten-free biscuits from sorghum flour granifero (*Sorghum bicolor* (L.) Moench). *Food Science and Technology (Brazil)*, 42, 1–7. <https://doi.org/10.1590/fst.29222>
- Chandra, A., Inggrid, H. M., & Verawati. (2013). Pengaruh pH dan Jenis Larutan Perendam pada Perolehan dan Karakterisasi Pati dari Biji Alpukat. *Universitas Katolik Parahyangan, November*, 54.
- Darmiyanti, W., Rahmawati, Y., Kurniadewi, F., & Ridwan, A. (2017). Analisis Model Mental Siswa Dalam Penerapan Model Pembelajaran Learning Cycle 8E Pada Materi Hidrolisis Garam. *JRPK: Jurnal Riset Pendidikan Kimia*, 7(1), 38–51. <https://doi.org/10.21009/jrpk.071.06>
- Dinas Pertanian Lombok Tengah. (2022). *Sorgum Bioguma 1*. <https://pertanian.lomboktengahkab.go.id/berita/sorgum-bioguma-1#:~:text=Dibandingkan sorgum pada umumnya%2C tanaman,pemuliaan dari sorgum varietas Numbu>.
- Dunn, K. L., Yang, L., Girard, A., Bean, S., & Awika, J. M. (2015). Interaction of sorghum tannins with wheat proteins and effect on in vitro starch and protein digestibility in a baked product matrix. *Journal of Agricultural and Food Chemistry*, 63(4), 1234–1241. <https://doi.org/10.1021/jf504112z>
- Edha, H., Sitorus, S. H., & Ristian, U. (2020). PENERAPAN METODE TRANSFORMASI RUANG WARNA HUE SATURATION INTENSITY (HSI) UNTUK MENDETEKSI KEMATANGAN BUAH MANGGA HARUM MANIS Hendryanto. *Jurnal Komputer Dan Aplikasi*, 8(1), 1–10.
- Elkhalifa, A. E. O., & Bernhardt, R. (2010). Influence of grain germination on functional properties of sorghum flour. *Food Chemistry*, 121(2), 387–392. <https://doi.org/10.1016/j.foodchem.2009.12.041>
- Fauziana, P. U., Sigit, B., & Atmaka, W. (2014). KAJIAN KARAKTERISTIK FISIKOKIMIA TEPUNG SORGHUM(*Sorghum bicolor* L.) VARIETAS MANDAU TERMODIFIKASI DENGAN VARIASI LAMA PERENDAMAN DAN KONSENTRASI ASAM ASETAT. *Jurnal Teknoscains Pangan*, 3(1). [www.ilmupangan.fp.uns.ac.id](http://www.ilmupangan.fp.uns.ac.id)
- Gallagher, E., Kunkel, A., Gormley, T. R., & Arendt, E. K. (2003). The effect of



- dairy and rice powder addition on loaf and crumb characteristics, and on shelf life (intermediate and long-term) of gluten-free breads stored in a modified atmosphere. *European Food Research and Technology*, 218(1), 44–48. <https://doi.org/10.1007/s00217-003-0818-9>
- Gati, E., & Nur, A. (2018). *Deskripsi Varietas Sorgum Bioguma*. Badan Penelitian dan Pembangunan Pertanian (Balitbangtan).
- Handayani, I., & Sa'diyah, K. (2023). Pengaruh Waktu Pirolisis Serbuk Gergaji Kayu Terhadap Hasil Asap Cair. *DISTILAT: Jurnal Teknologi Separasi*, 8(1), 28–35. <https://doi.org/10.33795/distilat.v8i1.227>
- Handayani, P. A., & Rahmawati, A. (2013). PEMANFAATAN KULIT BUAH NAGA (Dragon Fruit) SEBAGAI PEWARNA ALAMI MAKANAN PENGGANTI PEWARNA SINTETIS. *Jurnal Bahan Alam Terbarukan*, 1(2), 75017. <https://doi.org/10.15294/jbat.v1i2.2545>
- Harahap, F. S., Oesman, R., Fadhillah, W., & Nasution, A. P. (2021). Penentuan Bulk Density Ultisol Di Lahan Praktek Terbuka Universitas Labuhanbatu Determination Of Ultisol Bulk Density In Open Land Of Universitas Labuhanbatu. *Jurnal Ilmu Pertanian Volume*, 6(2), 56–59.
- Hariprasanna, K., & Patil, J. V. (2015). Sorghum Molecular Breeding. *Sorghum Molecular Breeding*, 3–20. <https://doi.org/10.1007/978-81-322-2422-8>
- Haros, M., Perez, O. E., & Rosell, C. M. (2004). Effect of Steeping Corn with Lactic Acid on Starch Properties. *Cereal Chemistry*, 81(1), 10–14. <https://doi.org/10.1094/CCHEM.2004.81.1.10>
- Harsanti, D. (2010). Sintesis Dan Karakterisasi Boron Karbida Dari Asam Borat, Asam Sitrat Dan Karbon Aktif. *Jurnal Sains & Teknologi Modifikasi Cuaca*, 11(1), 29. <https://doi.org/10.29122/jstmc.v11i1.2178>
- Harun, N., Jurusan Teknologi Pertanian, M., Pertanian, F., Riau, U., & Pertanian, T. (2021). *Penambahan Asam Sitrat terhadap Kualitas Tepung Pisang Batu Addition of Citric Acid to the Quality of Stone Banana Flour*. 8, 1.
- Haryono. (2013). *Sorgum Inovasi Teknologi dan Pengembangan*. IAARD Press.
- Irfan, I., Zaidiyah, Z., & Fitri, N. (2022). Pengaruh Jenis Kentang dan Konsentrasi Asam Sitrat terhadap Mutu Tepung Kentang. *Jurnal Teknologi Dan Industri Pertanian Indonesia*, 14(2), 72–80. <https://doi.org/10.17969/jtipi.v14i2.24093>
- J, J., N, S., & LD, M. (2013). Production performance and immune responses of broilers given single step down diet with inclusion of citric acid as acidifier. *Jurnal Ilmu Ternak Dan Veteriner*, 18(4), 251–257. <https://doi.org/10.14334/jitv.v18i4.331>
- Kementrian Kesehatan RI. (2017). *Tabel Komposisi Pangan Indonesia (TKPI)*.
- Khattab, T. A., Dacrory, S., Abou-Yousef, H., & Kamel, S. (2019). Development of microporous cellulose-based smart xerogel reversible sensor via freeze drying for naked-eye detection of ammonia gas. *Carbohydrate Polymers*, 210(August 2018), 196–203. <https://doi.org/10.1016/j.carbpol.2019.01.067>
- Kurniadi, M., Andriani, M., Faturohman, F., & Damayanti, E. (2013). KARAKTERISTIK FISIKOKIMIA TEPUNG BIJI SORGHUM ( Sorghum bicolor L .) TERFERMENTASI BAKTERI ASAM LAKTAT Lactobacillus acidophilus. *AGRITECH*, 33(3), 288–295.
- Lima, A. A. S., Otero, D. M., Ferreira-ribeiro, C. D., & da Silva, R. M. (2019). Wheat Substitutes for Gluten-Free Pasta : An Integrative Review. *Journal of*

- Biotechnology Research*, 5(10), 100–106.  
<https://doi.org/https://doi.org/10.32861/jbr.510.100.106>
- Lisa, M., Lutfi, M., & Susilo, B. (2015). Pengaruh suhu dan lama pengeringan terhadap mutu tepung jamur tiram putih (*Plaerotus ostreatus*). *Jurnal Keteknikan Pertanian Tropis Dan Biosistem*, 3(3), 270–279.  
<https://jkptb.ub.ac.id/index.php/jkptb/article/view/293>
- Marston, K., Khouryieh, H., & Aramouni, F. (2016). Effect of heat treatment of sorghum flour on the functional properties of gluten-free bread and cake. *LWT*, 65, 637–644. <https://doi.org/10.1016/j.lwt.2015.08.063>
- Méndez-Albores, A., Veles-Medina, J., Urbina-Álvarez, E., Martínez-Bustos, F., & Moreno-Martínez, E. (2009). Effect of citric acid on aflatoxin degradation and on functional and textural properties of extruded sorghum. *Animal Feed Science and Technology*, 150(3–4), 316–329.  
<https://doi.org/10.1016/j.anifeedsci.2008.10.007>
- Nurhasanah, A., Hermawan, W., Mandang, T., Unadi, A., Tjb, M., Arif, S., Hidayat, M., Amalia, A. F., Ww, T., Uning, B., N, P. D., & Adji, P. (2023). *Penentuan Parameter Desain Mesin Perontok Sorgum Berdasarkan Karakteristik Fisik dan Mekanik Tanaman Sorgum*. 11(1), 76–87.
- Pusat Statistik, B. (2020). *STATISTIK PERDAGANGAN LUAR NEGERI FOREIGN TRADE STATISTICAL BULLETIN Desember*.
- Pusat Statistik, B. (2021). *STATISTIK PERDAGANGAN LUAR NEGERI FOREIGN TRADE STATISTICAL BULLETIN Desember*.
- Queiroz, V. A. V., Aguiar, A. da S., de Menezes, C. B., de Carvalho, C. W. P., Paiva, C. L., Fonseca, P. C., & da Conceição, R. R. P. (2018). A low calorie and nutritive sorghum powdered drink mix: Influence of tannin on the sensorial and functional properties. *Journal of Cereal Science*, 79, 43–49.  
<https://doi.org/10.1016/j.jcs.2017.10.001>
- Rakshit, S., & Wang, Y.-H. (2016). *Compendium of Plant Genomes The Sorghum Genome*. <http://www.springer.com/series/11805>
- Ramli, H. K., Yuniarti, T., Lita, N. P. S. N., & Sipahutar, Y. H. (2020). Uji Fitokimia Secara Kualitatif Pada Buah dan Ekstrak Air Buah Mangrove. *Jurnal Penyuluhan Perikanan Dan Kelautan*, 14(1), 1–12.  
<https://doi.org/10.33378/jppik.v14i1.198>
- Rao, S., Santhakumar, A. B., Chinkwo, K. A., Wu, G., Johnson, S. K., & Blanchard, C. L. (2018). Characterization of phenolic compounds and antioxidant activity in sorghum grains. *Journal of Cereal Science*, 84, 103–111. <https://doi.org/10.1016/j.jcs.2018.07.013>
- Rochmadi, I. (2022). *KEBIJAKAN DAN PROGRAM PENGEMBANGAN SORGUM DI INDONESIA*. Kementerian Pertanian Direktorat Jenderal Tanaman Pangan. <https://tanamanpangan.pertanian.go.id/detil-konten/iptek/131>
- Safitri, F., Yunianta, & Purwantiningrum, I. (2013). The influence of Modified Starch's adding for Non Dairy Creamer's product against the Emulsification Stability and the Efficiency of Sodium caseinate Usage. *Jurnal Pangan Dan Agroindustri*, 1(1 p), 1–14.  
<http://www.tandfonline.com/doi/full/10.1080/10942912.2015.1020390%5Cnhttp://ccsenet.org/journal/index.php/jas/article/view/4069%5Cnhttp://www.sciencedirect.com/science/article/pii/S014181301500481X>



- Sahi, M. R., Fatimawali, F., & Siampa, J. P. (2021). EKSTRAKSI DAN OPTIMASI ANTOSIANIN DAUN GEDI MERAH (*Abelmoschus manihot* (L.) Medik.) DENGAN METODE SPEKTROFOTOMETRI UV-VIS. *Pharmacon*, 10(1), 668. <https://doi.org/10.35799/pha.10.2021.32753>
- Setiarto, R. H. B., Widhyastuti, N., & Saskiawan, I. (2017). Pengaruh Fermentasi Fungi, Bakteri Asam Laktat dan Khamir terhadap Kualitas Nutrisi Tepung Sorgum (Effect of Lactic Acid Bacteria, Fungi and Yeast Fermentation on Nutritional Quality of Sorghum Flour). *Agritech*, 36(4), 440. <https://doi.org/10.22146/agritech.16769>
- Shen, S., Huang, R., Li, C., Wu, W., Chen, H., Shi, J., Chen, S., & Ye, X. (2018). Phenolic Compositions and Antioxidant Activities Differ Significantly among Sorghum Grains with Different Applications. *Molecules (Basel, Switzerland)*, 23(5). <https://doi.org/10.3390/molecules23051203>
- Suarni. (2004). Evaluasi Sifat Fisik dan Kandungan Kimia Biji Sorgum Setelah Penyosohan. *Jurnal Stigma XII*, 13(3), 177–186. <https://jtp.ub.ac.id/index.php/jtp/article/download/372/735>
- Suarni, dan I. F. (2016). *Komposisi Nutrisi dan Teknologi Pengolahan Sorgum*. <http://balitsereal.litbang.pertanian.go.id/wp-content/uploads/2016/11/anis.pdf>
- Sulistyawati. (2022). *Mengenal Genotype Sorgum Lokal Jawa Timur*. Literasi Nusantara Abadi. [http://repository.unmerpas.ac.id/311/1/MENGENAL\\_GENOTIPE\\_SORGUM\\_LOKAL\\_JAWA\\_TIMUR.pdf](http://repository.unmerpas.ac.id/311/1/MENGENAL_GENOTIPE_SORGUM_LOKAL_JAWA_TIMUR.pdf)
- Surianti, N., Agung, I., & Puspawati, G. (2012). Pengaruh Konsentrasi Asam Sitrat Terhadap Karakteristik Ekstrak Pigmen Limbah Selaput Lendir Biji Terung Belanda (*Cyphomandra Beatacea* S.) Dan Aktivitas Antioksidannya. *Jurnal Ilmu Dan Teknologi Pangan (Itep)*, 2(1), 1–10.
- Taufiq, M., & Indra, A. (2020). *Rancang Bangun Alat Penggiling Terasi dengan Variasi Diameter Lubang*. 1(1), 24–30.
- Widowati, S., Nurjanah, R., & Amrinola, W. (2010). *Proses Pembuatan dan Karakterisasi Nasi Sorgum Instan*. 978–979.
- Wulandari, E., Rahimah, S., & Totos, R. G. (2021). Isolasi Protein Sorgum Sebagai Produk Samping Ekstraksi Pati Menggunakan Metode Penggilingan Basah. *Jurnal Pangan Dan Agroindustri*, 9(3), 148–154. <https://doi.org/10.21776/ub.jpa.2021.009.03.2>
- Xiong, Y., Zhang, P., Warner, R. D., & Fang, Z. (2019). Sorghum Grain: From Genotype, Nutrition, and Phenolic Profile to Its Health Benefits and Food Applications. *Comprehensive Reviews in Food Science and Food Safety*, 18(6), 2025–2046. <https://doi.org/10.1111/1541-4337.12506>
- Yusnita, M. (2019). *Asam, Basa, dan Garam di Lingkungan Kita* (H. Hardinah (ed.)). ALPRIN.
- Zehra, N., Mohsin Ali, T., & Hasnain, A. (2020). Comparative study on citric acid modified instant starches (alcoholic alkaline treated) isolated from white sorghum and corn grains. *International Journal of Biological Macromolecules*, 150, 1331–1341. <https://doi.org/10.1016/j.ijbiomac.2019.10.143>
- Zubair, A., & Padjadjaran, U. (2018). *SORGUM - Tanaman Multi Manfaat* (Issue March). <https://www.researchgate.net/publication/323535445>