DAFTAR PUSTAKA

Acosta Martínez, E., Giulietti, M., Batista de Almeida e Silva, J., Derenzo, S., & Almeida Felipe, M. das G. (2009). Batch cooling crystallization of xylitol produced by biotechnological route. *Journal of Chemical Technology and Biotechnology*, *84*(3), 376–381. https://doi.org/10.1002/jctb.2050

Afifah, A. N., Hadi, D., & Sudarminto, P. (2022). PENENTUAN SUHU DAN WAKTU OPTIMUM HIDROLISIS KEDELAI MENGGUNAKAN BUAH PEPAYA MUDA UNTUK PEMBUATAN KECAP MANIS. *Jurnal Teknologi Separasi*, *8*(3), 636–645. http://distilat.polinema.ac.id

Agyekum, A. K., Walsh, M. C., Kiarie, E., Sands, J. S., & Nyachoti, C. M. (2018). Dietary D-xylose effects on growth performance, portal nutrient fluxes, and energy expenditure in growing pigs. *Journal of Animal Science*, *96*(6), 2310–2319. https://doi.org/10.1093/jas/sky142

Alaghbary, A. (2023). *Vacuum Pan Control in Sugar Refining Crystallization Process*. https://doi.org/10.13140/RG.2.2.28505.74087

Alaghbary, A. (2024). *Controlling Sugar Crystal Growth during Crystallization Process*. https://www.researchgate.net/publication/379806319

Allahyarov, E., Sandomirski, K., Egelhaaf, S. U., & Löwen, H. (2015). Crystallization seeds favour crystallization only during initial growth. *Nature Communications*, *6*. https://doi.org/10.1038/ncomms8110

Aluf, W. (2023). *OPTIMASI SUHU PEMEKATAN DAN KONSENTRASI BIBIT DALAM PRODUKSI GULA KRISTAL XILOSA MENGGUNAKAN RESPONSE SURFACE METHODOLOGY SKRIPSI*.

Andlar, M., Rezić, T., Marđetko, N., Kracher, D., Ludwig, R., & Šantek, B. (2018). Lignocellulose degradation: An overview of fungi and fungal enzymes involved in lignocellulose degradation. In *Engineering in Life Sciences* (Vol. 18, Issue 11, pp. 768–778). Wiley-VCH Verlag. https://doi.org/10.1002/elsc.201800039

Atsukawa, K., Kudo, S., Amari, S., & Takiyama, H. (2020). Increase of solidification rate to improve quality of productivity for xylitol/sorbitol crystalline candy products. *Journal of Food Engineering*, *268*. https://doi.org/10.1016/j.jfoodeng.2019.109738

Badan Pusat Statistik. (2023). *STATISTIK KOPI INDONESIA (INDONESIA COFFEE STATISTICS 2022)* (Vol. 7).

Bahri, S. (2020). Jurnal Teknologi Kimia Unimal EKSTRAKSI KALIUM DARI LIMBAH KULIT BIJI KOPI (COFFEA SP) MENGGUNAKAN METODE REFLUX. In *Jurnal Teknologi Kimia Unimal* (Vol. 9, Issue 1).

Bermingham, S. K., Verheijen, P. J. T., & Kramer, H. J. M. (2003). Optimal design of solution crystallization processes with rigorous models. *Chemical Engineering Research and Design*, *81*(8), 893–903. https://doi.org/10.1205/026387603322482130

Betoret, E. (2012). *Optimal Particle Size Distribution of White Sugar*. https://www.researchgate.net/publication/290051482

Chen, J. H., & Chang, Y. L. (2007). Isothermal crystallization kinetics and morphology development of isotactic polypropylene blends with atactic polypropylene. *Journal of Applied Polymer Science*, *103*(2), 1093–1104. https://doi.org/10.1002/app.25354

Damour, C., Benne, M., Boillereaux, L., Grondin-Perez, B., & Chabriat, J. P. (2011). Multivariable linearizing control of an industrial sugar crystallization process. *Journal of Process Control*, *21*(1), 46–54. https://doi.org/10.1016/j.jprocont.2010.10.002

Delgado, M., Navarro, M., Lázaro, A., Boyer, S. A. E., & Peuvrel-Disdier, E. (2021). Triggering and acceleration of xylitol crystallization by seeding and shearing: Rheo-optical and rheological investigation. *Solar Energy Materials and Solar Cells*, *220*. https://doi.org/10.1016/j.solmat.2020.110840

Devita, C., Pratjojo, W., Mantini, S., & Sedyawati, R. (2015). Indonesian Journal of Chemical Science. *J. Chem. Sci*, *4*(1). http://journal.unnes.ac.id/sju/index.php/ijcs

Ersundu, M. C., Ersundu, A. E., Aydın, Ş. Ş., Çelikbilek, M., & Aydın, S. (2012). Crystallization Kinetics of Amorphous Materials. In *Advances In Crystallization Processes* (Vol. 1, pp. 127–162). InTech. https://www.researchgate.net/publication/230717175

Farina Nury, D., Zulfikar Luthfi, M., Variyana, Y., Bahan Nabati, K., ATI Padang, P., Studi Teknologi Rekayasa Kimia Industri, P., & Negeri Lampung, P. (2023). Pengaruh Pretreatment Alkali Hidroksida Terhadap Produksi Gula Reduksi dari Limbah Kulit Kopi INFORMASI ARTIKEL ABSTRAK. *Journal Applied of Science and Chemical Engineering*, *1*(1). https://jurnal.polinela.ac.id/joasce

Febrinasari, T., & Irfan, Y. (2023). Strategi Teknologi Produksi Xilooligosakarida dari Limbah Pertanian. *G-Tech: Jurnal Teknologi Terapan*, *8*(1), 304–321. https://doi.org/10.33379/gtech.v8i1.3629

Freundlich, I., Penentuan, D., Reaksi, L., Besi, A., Aktif, A., Kopi, A., Tahad, A., & Sanjaya, A. S. (2017). Aswar Tahad Ari Susandy Sanjaya ISOTHERM FREUNDLICH, KINETICS MODEL AND DEFINITION RATE ADSORPTION OF Fe WITH ACTIVATED CARBON FROM COFFEE WASTE. In *Jurnal Chemurgy* (Vol. 01, Issue 2).

Fu, Y., Wang, L., Jiang, G., Ren, L., Wang, L., & Liu, X. (2022). *Anti-Diabetic Activity of Polysaccharides from Auricularia cornea var. Li*. https://doi.org/10.3390/foods

Gabas, N. (1991). DISPERSION OF GROWTH RATES OF D-XYLOSE CRYSTALS IN AQUEOUS SOLUTIONS-INFLUENCE OF THE PRESENCE OF ETHANOL AS A CO-SOLVENT AND OF D-MANNOSE AS A CO-SOLUTE. In *Chemical Engmeermg Science* (Vol. 46, Issue 5).

Galvan, S., Madderson, O., Xue, S., Teixeira, A. P., & Fussenegger, M. (2022). Regulation of Transgene Expression by the Natural Sweetener Xylose. *Advanced Science*, *9*(34). https://doi.org/10.1002/advs.202203193

Halfwerk, R., Yntema, D., Van Spronsen, J., & Van der Padt, A. (2021). A sub-zero crystallization process for the recovery of lactose. *Journal of Food Engineering*, *308*. https://doi.org/10.1016/j.jfoodeng.2021.110677

Hartel, R. W. (2019). Crystallization in foods. In *Handbook of Industrial Crystallization* (pp. 460–478). Cambridge University Press. https://doi.org/10.1017/9781139026949.015

Hartge, H. M., Flöter, E., & Vilgis, T. A. (2023). Crystallization in highly supersaturated, agitated sucrose solutions. *Physics of Fluids*, *35*(6). https://doi.org/10.1063/5.0150227

He, Y., Li, H., Chen, L., Zheng, L., Ye, C., Hou, J., Bao, X., Liu, W., & Shen, Y. (2021). Production of xylitol by Saccharomyces cerevisiae using waste xylose mother liquor and corncob residues. *Microbial Biotechnology*, *14*(5), 2059–2071. https://doi.org/10.1111/1751-7915.13881

Isnaini Nawawi, M. S., Mardawati, E., Nur Fitriana, H., Putri Amanda, dan, Ir Soekarno Km, J., Barat, J., Riset Biomassa dan Bioproduk, P., Riset Hayati dan Lingkungan, O., Riset dan Inovasi Nasional Jl Raya Jakarta-Bogor Km, B., & Kunci, K. (2023). *Evaluasi Tahapan Pretreatment dan Hidrolisis Enzimatik terhadap Tadan Kosong Kelapa Sawit untuk Produksi Xilosa dan Glukosa*. *1*(1), 9–13.

Juliastuti, S. R., Widjaja, T., Altway, A., & Iswanto, T. (2017). Biogas production from pretreated coffee-pulp waste by mixture of cow dung and rumen fluid in co-digestion. *AIP Conference Proceedings*, *1840*. https://doi.org/10.1063/1.4982341

Jumari, A., Rachmawati, D., Kumiawan, R., Teknik, J., & Fakultas, K. (2003). KINETIKA KRISTALISASI LARUTAN GULA (SUKROSA) PADA PEMBUATAN GULA TEBU. *Jurnal Ekuilibrium*, *2*(1), 40–45.

Jun, Y. J., Lee, J., Hwang, S., Kwak, J. H., Ahn, H. Y., Bak, Y. K., Koh, J., & Lee, J. H. (2016). Beneficial effect of xylose consumption on postprandial hyperglycemia in Korean: A randomized double-blind, crossover design. *Trials*, *17*(1). https://doi.org/10.1186/S13063-016-1261-0

Karpinski, P. H., & Wey, J. S. (2002). *6 PRECIPITATION PROCESSES*.

Kelly, C. A., & Jenkins, M. J. (2022). Modeling the crystallization kinetics of polymers displaying high levels of secondary crystallization. *Polymer Journal*, *54*(3), 249–257. https://doi.org/10.1038/s41428-021-00581-0

Kementan. (2022). *OUTLOOK KOPI 2022 Pusat Data dan Sistem Informasi Pertanian i OUTLOOK KOPI Pusat Data dan Sistem Informasi Pertanian*.

Kim, E., Kim, Y. S., Kim, K. M., Jung, S., Yoo, S. H., & Kim, Y. (2016). D-xylose as a sugar complement regulates blood glucose levels by suppressing phosphoenolpyruvate carboxylase (PEPCK) in streptozotocin-nicotinamide-induced diabetic rats and by enhancing glucose uptake in vitro. *Nutrition Research and Practice*, *10*(1), 11–18. https://doi.org/10.4162/nrp.2016.10.1.11

Kiyat, W. El, Mentari, D., & Santoso, N. (2019). Review: Potensi mikrobial selulase, xilanase, dan protease dalam fermentasi kopi luwak (Paradoxurus hermaphroditus) secara in vitro. *Jurnal Kimia Sains Dan Aplikasi*, *22*(2), 58–66. https://doi.org/10.14710/jksa.22.2.58-66

Linnikov, O. D. (2008). Mechanism of aggregation and intergrowth of crystals during bulk crystallization from solutions. *Crystal Research and Technology*, *43*(12), 1268–1277. https://doi.org/10.1002/crat.200800176

Manalu, H. V., Wibisono, Y., & Indriani, D. W. (2020). Hidrolisis Hemiselulosa pada Kulit Pisang Ambon Hong (Musa Acuminata) Menggunakan Katalis Asam Sulfat (H2SO4) pada Produksi Xilosa. *Jurnal Keteknikan Pertanian Tropis Dan Biosistem*, *8*(1), 46–56. https://doi.org/10.21776/ub.jkptb.2020.008.01.05

Mardawati, E., Andoyo, R., Syukra, K. A., Kresnowati, M., & Bindar, Y. (2018). Production of xylitol from corn cob hydrolysate through acid and enzymatic hydrolysis by yeast. *IOP Conference Series: Earth and Environmental Science*, *141*(1). https://doi.org/10.1088/1755-1315/141/1/012019

Mardawati, E., Annazhifah, N., Sukri, N., Suryadi, E., & Mandra Harahap, B. (2020). *Physicochemical Properties of Xylitol Crystals from Oil Palm Empty Fruit Bunches Hydrolysate*. *10*(4).

Mardawati, E., Werner, A., Bley, T., Kresnowati, M., & Setiadi, T. (2014). *The Enzymatic Hydrolysis of Oil Palm Empty Fruit Bunches to Xylose*.

Marques Júnior, J. E., & Rocha, M. V. P. (2021). Development of a purification process via crystallization of xylitol produced for bioprocess using a hemicellulosic hydrolysate from the cashew apple bagasse as feedstock. *Bioprocess and Biosystems Engineering*, *44*(4), 713–725. https://doi.org/10.1007/s00449-020-02480-9

Martínez, E. A., Canettieri, E. V., Bispo, J. A. C., Giulietti, M., De Almeida e Silva, J. B., & Converti, A. (2015). Strategies for xylitol purification and

Crystallization: A review. In *Separation Science and Technology (Philadelphia)* (Vol. 50, Issue 14, pp. 2087–2098). Taylor and Francis Inc. https://doi.org/10.1080/01496395.2015.1009115

Martínez, E. A., Giulietti, M., de Almeida e Silva, J. B., & Derenzo, S. (2008). Kinetics of the xylitol crystallization in hydro-alcoholic solution. *Chemical Engineering and Processing: Process Intensification*, *47*(12), 2157–2162. https://doi.org/10.1016/j.cep.2007.11.004

Meldrum, F. C., & O'Shaughnessy, C. (2020). Crystallization in Confinement. In *Advanced Materials* (Vol. 32, Issue 31). Wiley-VCH Verlag. https://doi.org/10.1002/adma.202001068

Menon, A. R., Pande, A. A., Kramer, H. J. M., Jansens, P. J., & Grievink, J. (2007). A task-based synthesis approach toward the design of industrial crystallization process units. *Industrial and Engineering Chemistry Research*, *46*(12), 3979–3996. https://doi.org/10.1021/ie061126t

Msomi, N. Z., Erukainure, O. L., & Islam, M. S. (2021). Suitability of sugar alcohols as antidiabetic supplements: A review. *Journal of Food and Drug Analysis*, *29*(1), 1–14. https://doi.org/10.38212/2224-6614.3107

Nur Afnifitri Wias Arianti, F., Agung Istri Ratnadewi, A., Nurhayati, N., Jayus, J., Studi Magister Bioteknologi, P., Studi Teknologi Hasil Pertanian, P., Teknologi Pertanian, F., Jember Jalan Kalimantan, U., Bumi Tegal Boto Jember, K., & Timur, J. (2023). Produksi Xilosa dari Xilan Limbah Ampas Singkong Menggunakan Bacillus subtilis, Aureobasidium pullulans, dan Penicillium janczewskii Xylose Production from Xylan of Cassava Waste Using Bacillus subtilis, Aureobasidium pullulans, and Penicillium janczewskii. *Xilan Limbah Ampas Singkong ... Jurnal Agroteknologi*, *17*(02). https://doi.org/10.19184/j-agt.v17i02.41326

Nury, D. F., Luthfi, M. Z., Farohi, A. R., & Widjaja, T. (2023). Pengaruh Pre-Treatment Kimia dan Biologi Terhadap Produksi Biogas dari Kulit Kopi. *REACTOR: Journal of Research on Chemistry and Engineering*, *4*(2), 47. https://doi.org/10.52759/reactor.v4i2.99

Oktavia, S., Yudiastuti, N., Handayani, W., Kurnia, E., Sari, N., Wijaya, R., Brilliantina, A., Haris, A., & Slamet, H. (2024). The utilization of Trichoderma Viride in Optimising Xylanase Production from Coffee Cherry Processing Waste. In *International Journal of Islamic Education, Research and Multiculturalism (IJIERM)* (Vol. 6, Issue 1). https://journal.yaspim.org/index.php/IJIERM/index

Osman, A., & Rajab, F. (2023). Exploring the dynamic growth of sugar crystals: A volume diffusion non-steady state model under variable conditions. *AIP Advances*, *13*(6). https://doi.org/10.1063/5.0153275

Palamae, S., Dechatiwongse, P., Choorit, W., Chisti, Y., & Prasertsan, P. (2017). Cellulose and hemicellulose recovery from oil palm empty fruit bunch (EFB)

fibers and production of sugars from the fibers. *Carbohydrate Polymers*, *155*, 491–497. https://doi.org/10.1016/j.carbpol.2016.09.004

Paul Held. (2012). *Enzymatic Digestion of Polysaccharides Part II: Optimization of Polymer Digestion and Glucose Production in Microplates*. www.agilent.com/lifesciences/biotek

Paz, A., Outeiriño, D., Pérez Guerra, N., & Domínguez, J. M. (2019). Enzymatic hydrolysis of brewer's spent grain to obtain fermentable sugars. *Bioresource Technology*, *275*, 402–409. https://doi.org/10.1016/j.biortech.2018.12.082

Pereira, T. N., Aguiar, A. A., & Gerre, E. B. (2020). Obtenção biotecnológica de xilitol a partir da casca de mandioca (Manihot esculenta). *Journal of Biotechnology and Biodiversity*, *8*(3), 187–191. https://doi.org/10.20873/jbb.uft.cemaf.v8n3.pereira

Pinalia, A., Bidang, P., Propelan, T., & Roket, T. (2011). KRISTALISASI AMMONIUM PERKLORAT (AP) DENGAN SISTEM PENDINGINAN TERKONTROL UNTUK MENGHASILKAN KRISTAL BERBENTUK BULAT. In *Jurnal Teknologi Dirgantara* (Vol. 9, Issue 2).

Pol, K., & Mars, M. (2021). L-arabinose and d-xylose: Sweet pentoses that may reduce postprandial glucose and insulin responses. *Food and Nutrition Research*, *65*. https://doi.org/10.29219/fnr.v65.6254

Prastika, A., Pemanfaatan Limbah Biomassa sebagai Basis Pengembangan Energi Terbarukan di Kabupaten Jember, A., & Sultan Ali Muzakhar, S. (2023). Analysis of Utilization of Biomass Waste as a Base for Renewable Energy Development in Jember Regency. *Jurnal Kajian Ilmiah Dan Teknologi Teknik Mesin*, *8*(1), 2541–3562. https://doi.org/10.32528/jp.v8i1.472

Purnawan, A., Thontowi, A., Kholida, L. N., & Perwitasari, U. (2021). Review Hidrolisis Biomasa Lignoselulosa Untuk Xilitol. *Jurnal Ilmu Lingkungan*, *19*(3), 485–496. https://doi.org/10.14710/jil.19.3.485-496

Putra, N. (2016). Upaya Memperbaiki Warna Gula Semut dengan Pemberian Na-Metabisulfit (Efforts to Improve the Color of Palm Sugar Powder with Addition of Na-metabisulphite). *Aplikasi Teknologi Pangan*, *5*(1), 1–5. www.jatp.ift.or.id.

Rahman, S. H. A., Choudhury, J. P., & Ahmad, A. L. (2006). Production of xylose from oil palm empty fruit bunch fiber using sulfuric acid. *Biochemical Engineering Journal*, *30*(1), 97–103. https://doi.org/10.1016/j.bej.2006.02.009

Reny, S., Riset, S. B., Standardisasi, D., & Manado, I. (2018). PENGARUH KOSENTRASI SARI BUAH MANGGA KUWINI TERHADAP KUALITAS PERMEN KERAS EFFECT OF KUWINI FRUIT EXTRACT CONCENTRATION ON HARD CANDY QUALITY. In *Jurnal Penelitian Teknologi Industri* (Vol. 10, Issue Desember).

Sailah, I., & Miladulhaq, M. (2021). PERUBAHAN SIFAT FISIKOKIMIA SELAMA PENGOLAHAN BAWANG PUTIH TUNGGAL MENJADI BAWANG HITAM MENGGUNAKAN RICE COOKER. *Jurnal Teknologi Industri Pertanian*, 88–97. https://doi.org/10.24961/j.tek.ind.pert.2021.31.1.88

Sampaio, F. C., Passos, F. M. L., Passos, F. J. V., De Faveri, D., Perego, P., & Converti, A. (2006). Xylitol crystallization from culture media fermented by yeasts. *Chemical Engineering and Processing: Process Intensification*, *45*(12), 1041–1046. https://doi.org/10.1016/j.cep.2006.03.012

Semlali, N., Hassani, A., Saidi, K., & Bounahmidi, T. (2001). Steady state modeling and simulation of an industrial sugar continuous crystallizer. In *Computers and Chemical Engineering* (Vol. 25). www.elsevier.com/locate/compchemeng

Seppälä, A., Meriläinen, A., Wikström, L., & Kauranen, P. (2010). The effect of additives on the speed of the crystallization front of xylitol with various degrees of supercooling. *Experimental Thermal and Fluid Science*, *34*(5), 523–527. https://doi.org/10.1016/j.expthermflusci.2009.11.005

Septiani, R., Effendi, H., & Miftah, A. M. (2020). Perbandingan Metode Produksi Bioetanol dari Kulit Kopi. *Prosiding Farmasi*, *6*, 115–120. https://doi.org/10.29313/.v6i2.22570

Shamlolj, P. A., Jones, A. G., & Djamarani, K. (1990). HYDRODYNAMICS OF SECONDARY NUCLEATION IN SUSPENSION CRYSTALLIZATION. In *Chentcal Engineering Science* (Vol. 45, Issue 5).

Shi, Y., Liang, B., & Hartel, R. W. (2006). *CRYSTAL REFINING TECHNOLOGIES BY CONTROLLED CRYSTALLIZATION*. 1–19.

Supeno, B., Md, N., & Ernawati, L. (2018). *DIVERSIFIKASI PEMANFAATAN LIMBAH KULIT BUAH KOPI UNTUK PRODUK YANG BERNILAI EKONOMIS TINGGI DI KABUPATEN LOMBOK UTARA* (Vol. 1).

Tang, P. L., Hong, W. L., Yue, C. S., & Harun, S. (2020). Palm oil mill effluent as the pretreatment solvent of oil palm empty fruit bunch fiber for fermentable sugars production. *Bioresource Technology*, *314*. https://doi.org/10.1016/j.biortech.2020.123723

Tyson, B., Pask, C. M., George, N., & Simone, E. (2022). Crystallization Behavior and Crystallographic Properties of dl -Arabinose and dl -Xylose Diastereomer Sugars. *Crystal Growth and Design*, *22*(2), 1371–1383. https://doi.org/10.1021/acs.cgd.1c01329

Verdurand, E., Bebon, C., Colson, D., Klein, J. P., Blandin, A. F., & Bossoutrot, J. M. (2005). Secondary nucleation and growth of organic crystals in industrial crystallization. *Journal of Crystal Growth*, *275*(1–2). https://doi.org/10.1016/j.jcrysgro.2004.11.171

Villanueva, D., Posada, R., González, I., García, Á., & Martínez, A. (2015). Monitoring of a sugar crystallization process with fuzzy logic and digital image processing. *Journal of Food Process Engineering*, *38*(1), 19–30. https://doi.org/10.1111/jfpe.12122

Vyglazov, V. V. (2004). Kinetic Characteristics of Xylitol Crystallization from Aqueous-Ethanolic Solutions. In *Russian Journal of Applied Chemistry* (Vol. 77, Issue 1).

Wardhana, D. I., Assadam, A., Nalawati, A. N., & Murwanti, R. (2022). Produksi gula pereduksi dari kulit kopi robusta dengan metode hidrolisis asam. *Agrointek : Jurnal Teknologi Industri Pertanian*, *16*(2), 164–170. https://doi.org/10.21107/agrointek.v16i2.10176

Wong, S. Y., Bund, R. K., Connelly, R. K., & Hartel, R. W. (2011). Determination of the dynamic metastable limit for α-lactose monohydrate crystallization. *International Dairy Journal*, *21*(11), 839–847. https://doi.org/10.1016/j.idairyj.2011.05.003

Wong, S. Y., & Hartel, R. W. (2014). Crystallization in Lactose Refining-A Review. *Journal of Food Science*, *79*(3). https://doi.org/10.1111/1750-3841.12349

Yudiastuti, S. O. N., Mardawati, E., Kresnowati, M., & Bindar, Y. (2018). COMPARATIVE STUDY OF GLUCOSE AND XYLOSE PRODUCTION IN ENZYMATIC HYDROLYSIS RESULT BY BATCH AND FED BATCH METHOD. *Jurnal Teknotan*, *12*(1). https://doi.org/10.24198/jt.vol12n1.9

Zaykovskaya, A., & Louhi-Kultanen, M. (2023). Batch Crystallization of Xylitol by Cooling, Evaporative, and Antisolvent Crystallization. *Crystal Growth and Design*, *23*(3), 1813–1820. https://doi.org/10.1021/acs.cgd.2c01323

Zhang, H., Han, L., & Dong, H. (2021). An insight to pretreatment, enzyme adsorption and enzymatic hydrolysis of lignocellulosic biomass: Experimental and modeling studies. In *Renewable and Sustainable Energy Reviews* (Vol. 140). Elsevier Ltd. https://doi.org/10.1016/j.rser.2021.110758

Zhao, Z., Xian, M., Liu, M., & Zhao, G. (2020). Biochemical routes for uptake and conversion of xylose by microorganisms. In *Biotechnology for Biofuels* (Vol. 13, Issue 1). BioMed Central Ltd. https://doi.org/10.1186/s13068-020-1662-x

Zi, G., Huang, B., Dai, M., Shi, Z., Wen, Z., Li, W., Luo, L., & Yang, L. (2023). Effects of seed crystal concentration, pH, and stirring rate on ammonium sulfate crystallization under the action of ammonium nitrate. In *Phosphorus, Sulfur and Silicon and the Related Elements* (Vol. 198, Issue 7, pp. 566–574). Taylor and Francis Ltd. https://doi.org/10.1080/10426507.2023.2175828

Zulfikar Syaiful, A., Sonda, M., & Teknik Kimia, P. (2022). PENGARUH LAMA PENGAKTIFAN RAGI UNTUK FERMENTASI KULIT KOPI ARABIKA MENJADI BIOETANOL. *SAINTIS*, *3*(2).