

## DAFTAR PUSTAKA

- Al-Maqtari, Q. A., Al-Ansi, W., & Mahdi, A. A. (2019). *Microbial enzymes produced by fermentation and their applications in the food industry: A review*. International Journal of Agriculture Innovations and Research, 8(1), 62–70.
- Adam, A. T., Pakaya, M. S., Hiola, F., Aman, L. O., & Uno, W. Z. (2025). *Comparison of Cellulase Enzyme Production from Aspergillus niger With and Without Using Carboxymethyl Cellulose (CMC)*. In. 8(9), 5732–5737. <https://doi.org/10.56338/jks.v8i9.8536>
- Agustien, A. (2010). *Protease Bakteri Termofilik*. Unpad Press. Bandung.
- Agustien, A., Muqarramah, M., & Alamsjah, F. (2024). Optimization and Molecular Identification of Protease-Producing Thermophilic Bacterial Isolate TUA-26. *OnLine Journal of Biological Sciences*, 24(3), 321–329. <https://doi.org/10.3844/ojbsci.2024.321.329>
- Agustien, A., & Rilda, Y. (2015). *Research Article Catalytic activity and conditions of extracellular protease alkaline thermostable Bacillus sp . SR-09*. 7(11), 417–421.
- Alamsjah, F., Aswan, D. R., & Agustien, A. (2024). *pH and Temperature Optimization of Several Bacterial Isolates from Mangrove Waters in the Mandeh Area to Produce Cellulase Enzyme*. <https://doi.org/10.3844/ojbsci.2024.367.373>
- Arbab, S., Ullah, H., Khan, M. I. U., Khattak, M. N. K., Zhang, J., Li, K., & Hassan, I. U. (2022). Diversity and distribution of thermophilic microorganisms and their applications in biotechnology. *Journal of Basic Microbiology*, 62(2), 95–108. <https://doi.org/10.1002/jobm.202100529>
- Aswarita, R., 2013. Interaksi ekstrak daun lidah buaya (Aloe vera L.) dan daun jambu biji (Psidium guajava L.) terhadap daya hambat Escherichia coli secara in vitro. *Jurnal Edubio Tropika* 1 (2): 61-210.
- Badino, S.F., Christensen, S.J., Kari, J., Windahl, M.S., Hvidt, S., Borch, K., dan Westh, P. (2017) 'Exo-exo synergy between Cel6A and Cel7A from *Hypocrea jecorina*: Role of carbohydrate binding module and the endo-lytic character of the enzymes', *Biotechnology and Bioengineering*, 114(8), hal. 1639–1647.
- Baharuddin, M., Khaerah, N., Fadillah, N., & Azis, F. (2022.). Isolasi Dan Identifikasi Khamir Pada Larva Cossus Cossus Penghasil Selulase. *Teknosains: Media Informasi Sains Dan Teknologi*, 16, 291–300.

- Barik, S. (2020). Evolution of protein structure and stability in global warming. *International Journal of Molecular Sciences*, 21(24), 1–22. <https://doi.org/10.3390/ijms21249662>
- Benammar, L., Bektaş, K. İ., Menasria, T., Beldüz, A. O., Güler, H. İ., Bedaida, I. K., Gonzalez, J. M., & Ayachi, A. (2020). *Diversity and enzymatic potential of thermophilic bacteria associated with terrestrial hot springs in Algeria*. *Brazilian Journal of Microbiology*, 51(4), 1987–2007. <https://doi.org/10.1007/s42770-020-00376-0>
- Berlemont, R., et al. (2014). *Cellulolytic potential under environmental changes in microbial communities from grassland litter*. *Frontiers in Microbiology*, 5:639. <https://doi.org/10.3389/fmicb.2014.00639>
- Bhalla, A., Bansal, N., Kumar, S., Bischoff, K. M., & Sani, R. K. (2013). Improved lignocellulose conversion to biofuels with thermophilic bacteria and thermostable enzymes. *Bioresource Technology*, 128, 751–759. <https://doi.org/10.1016/j.biortech.2012.10.145>
- Biermann, R., & Beutel, S. (2023). Endospore production of *Bacillus* spp. for industrial use. In *Engineering in Life Sciences* (Vol. 23, Number 11). John Wiley and Sons Inc. <https://doi.org/10.1002/elsc.202300013>
- Biswas, S., Saber, M. Al, Tripty, I. A., Karim, M. A., Islam, M. A., Hasan, M. S., Alam, A. S. M. R. U., Jahid, M. I. K., & Hasan, M. N. (2020). Molecular characterization of cellulolytic (endo- and exoglucanase) bacteria from the largest mangrove forest (Sundarbans), Bangladesh. *Annals of Microbiology*, 70(1). <https://doi.org/10.1186/s13213-020-01606-4>
- Boyce, A., & Walsh, G. (2015). Characterisation of a novel thermostable endoglucanase from *Alicyclobacillus vulcanalis* of potential application in bioethanol production. *Applied Microbiology and Biotechnology*, 99(18), 7515–7525. <https://doi.org/10.1007/s00253-015-6474-8>
- Budiharjo, A., Wulandari, D., Shabrina, J., Mawarni, R. A., Maulana, A. R., Nurhayati, Wijanarka, W., Hartajanie, L., & Lindayani. (2024). Bioprospecting and Molecular Identification of Amylase and Cellulase Producing Thermophilic Bacteria from Sediment of Nglimut Hot Springs, Kendal Regency. *Journal of Tropical Biodiversity and Biotechnology*, 9(3), 1–13. <https://doi.org/10.22146/jtbb.86756>
- Ch, L. M., & Aditiawati, P. (2020). *Isolasi dan Identifikasi Bakteri Termofilik Penghasil Enzim Selulase dari Sumber Air Panas Sila*. 3(1), 32–35. <https://doi.org/10.31957/acr.v3i1.1214>
- Chavda, N.R., K.S. Panchal, R.K. Chaudhary and P.H. Patel. 2021. Bacterial Cellulases and its Applications: A Review. *Anal. Biochem*, 10(8): 1000400

- Chen, G.-Q., & Jiang, X.-R. (2018). Next generation industrial biotechnology based on extremophilic bacteria. *Current Opinion in Biotechnology*, 50, 94–100. <https://doi.org/10.1016/j.copbio.2017.11.016>
- Czjzek, M., Cicek, M., Zamboni, V., Bevan, D. R., Henrissat, B., & Esen, A. (2000). The mechanism of substrate (aglycone) specificity in  $\beta$ -glucosidases is revealed by crystal structures of mutant maize  $\beta$ -glucosidase-DIMBOA, -DIMBOAGlc, and -dhurrin complexes. *Proceedings of the National Academy of Sciences of the United States of America*, 97(25), 13555–13560. <https://doi.org/10.1073/pnas.97.25.13555>
- Decaix, G. (2024). *Enzymes : Protein Catalysts in Biological Reactions – Classification and Structure*. 10(05), 8084.
- Dotsenko, A., Denisenko, J., Osipov, D., Rozhkova, A., Zorov, I., & Sinitsyn, A. (2023). Testing and improving the performance of protein thermostability predictors for the engineering of cellulases. *Journal of Bioinformatics and Computational Biology*, 21(2), 2330001. <https://doi.org/10.1142/S0219720023300010>
- Ejaz, U., Sohail, M., & Ghanemi, A. (2021). Cellulases: From bioactivity to a variety of industrial applications. *Biomimetics*, 6(3), 1–11. <https://doi.org/10.3390/biomimetics6030044>
- Fernández-Martínez, L. T., Javelle, A., & Hoskisson, P. A. (2024). Microbial Primer: Bacterial growth kinetics. *Microbiology*, 170(2). <https://doi.org/10.1099/mic.0.001428>
- Ferraro, G., Imbimbo, P., Marseglia, A., Illiano, A., Fontanarosa, C., Amoresano, A., Olivieri, G., Pollio, A., Monti, D. M., & Merlino, A. (2020). A thermophilic C-phycocyanin with unprecedented biophysical and biochemical properties. *International Journal of Biological Macromolecules*, 150, 38–51. <https://doi.org/10.1016/j.ijbiomac.2020.02.045>
- Francantika, M. (2024). *Inovasi Crude Enzyme Xylanase ( CEX ) Dari Bakteri Termoxylanolitik SSA Memproduksi Biolistik*. 359–365.
- Fulazzaky, M. A., et al. (2016). Identification of biosurfactant-producing bacteria isolated from agro-food industrial effluent. *Data in Brief*, 7, 834–838.
- Gajic, I., Jovicevic, M., Kekic, D., Kabic, J., Vicic, I., Lukovic, B., Tomic, A., Sovljanski, O., Skoric, M., Sikanic, I., Jankovic, M., Smitran, A., Bozic, L., Golic, B., Basic, J., Karabasil, N., & Opavski, N. (2026). Evolving Approaches to Bacterial Identification: A Review of Classical and Modern Techniques. In *International Journal of Molecular Sciences* (Vol. 27, Number 11). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/ijms27115092>

- González-Candelas, L., Aristoy, M. C., Polaina, J., & Flors, A. (1989). Cloning and characterization of two genes from *Bacillus polymyxa* expressing beta-glucosidase activity in *Escherichia coli*. *Applied and Environmental Microbiology*, 55(12), 3173–3177. <https://doi.org/10.1128/aem.55.12.3173-3177.1989>
- Hartanti. (2010). *Isolasi dan Seleksi Bakteri Selulolitik Termofilik dari Kawah Air Panas Gunung Pancar, Bogor*.
- Henriques, A. O., & Moran Jr., C. P. (2007). Structure, Assembly, and Function of the Spore Surface Layers. *Annual Review of Microbiology*, 61(Volume 61, 2007), 555–588. <https://doi.org/https://doi.org/10.1146/annurev.micro.61.080706.093224>
- Hidayatulloh, A., Yahdiyani, N., & Nurhayati, L. S. (2022). Isolasi dan seleksi bakteri kandidat selulolitik dari proses pembuatan pupuk organik pada pengolahan limbah peternakan. *Jurnal Teknologi Hasil Peternakan*.
- Irawati, R. (2016). Karakterisasi pH, Suhu dan Konsentrasi Substrat pada Enzim Selulase Kasar yang Diproduksi Oleh *Bacillus circulans*. *Skripsi, Fakultas Sains dan Teknologi. Universitas Islam N*.
- Irfan, M., Mushtaq, Q., Tabssum, F., Shakir, H. A., & Qazi, J. I. (2017). Carboxymethyl cellulase production optimization from newly isolated thermophilic *Bacillus subtilis* K - 18 for saccharification using response surface methodology. *AMB Express*. <https://doi.org/10.1186/s13568-017-0331-3>
- Juturu, V., & Wu, J. (2014). Microbial cellulases: Engineering, production and applications. *Renewable and Sustainable Energy Reviews*, 33, 188–203. <https://doi.org/10.1016/j.rser.2014.01.077>
- Kuhad, R. C., Gupta, R., & Singh, A. (2011). Microbial Cellulases and Their Industrial Applications. *Enzyme Research*, 2011(1), 280696. <https://doi.org/https://doi.org/10.4061/2011/280696>
- Kumar, B., & Verma, P. (2020). Enzyme mediated multi-product process: A concept of bio-based refinery. *Industrial Crops and Products*, 154, 112607. <https://doi.org/https://doi.org/10.1016/j.indcrop.2020.112607>
- Kurniawati, L., Kusdiyantini, E., & Wijanarka, W. (2021). Pengaruh Variasi Suhu Dan Waktu Inkubasi Terhadap Aktivitas Enzim Selulase Dari Bakteri *Serratia marcescens*. *Bioma : Berkala Ilmiah Biologi*, 23, 33–42. <https://doi.org/10.14710/bioma.23.1.33-42>
- Lugani, Y., Singla, R., & Singh Sooch, B. (2015). Optimization of Cellulase Production from Newly Isolated *Bacillus* Sp. Y3. *Journal of Bioprocessing & Biotechniques*, 5(11), 3–8. <https://doi.org/10.4172/2155-9821.1000264>

- Madigan, M.T.J., M. Martinko, and J. Parker. 2000. *Biology of Microorganisms*. The 9 th Ed. Prentice Hall International, Inc. New Jersey.
- Majidah, R., Lubis, S. S., & Harahap, D. (2023). Potensi Enzim Selulase Dari Bakteri Termofilik Di Kawasan Wisata Ie Suum Kabupaten Aceh Besar. *Journal of Biological Sciences and Applied Biology*, 3(1), 25–34. <https://doi.org/10.22373/kenanga.v..i>
- Masum, M., & Ali Akbar, M. (2019). *The Pacific Ring of Fire is Working as a Home Country of Geothermal Resources in the World*. IOP Conference Series: Earth and Environmental Science, 249(1), 012020. <https://doi.org/10.1088/1755-1315/249/1/012020>
- Mawati SD, Harpeni E, Fidyandini HP. (2021). Skrining bakteri termofilik potensial amilolitik dari sumber air panas Way Belerang Kalianda Lampung Selatan. *Journal of Aquatropica Asia* 6(1):1-7. DOI: 10.33019/aquatropica.v6i1.2458
- Mela Sari, U., Agustien, A., Nurmiati Laboratorium Riset Mikrobiologi, D., & Biologi, J. (2012). Penapisan dan Karakterisasi Bakteri Selulolitik Termofilik Sumber Air Panas Sungai Medang, Kerinci. *Jurnal Biologi Universitas Andalas (J. Bio. UA.)*, 1(2), 166–171.
- Miller, G. L. (1959). Use of Dinitrosalicylic Acid Reagent for Determination of Reducing Sugar. *Analytical Chemistry*, 31(3), 426–428. <https://doi.org/10.1021/ac60147a030>
- Muharni. (2009). Isolasi dan identifikasi bakteri penghasil kitinase dari sumber air panas danau Ranau Sumatera Selatan. *Jurnal Penelitian Sains*, 9(D), 12–15.
- Mukminin, A. (2014). *Isolasi Bakteri Selulolitik Termofilik Dari Sumber Air Panas Pacet Mojokerto*. 1–8.
- Murtiyaningsih, H., & Hazmi, M. (2017). *Isolasi Dan Uji Aktivitas Enzim Selulase Pada Bakteri Selulolitik Asal Tanah Sampah*.
- Nababan, M., Gunam, I. B. W., & Wijaya, I. M. M. (2019). Produksi Enzim Selulase Kasar Dari Bakteri Selulolitik. *Jurnal Rekayasa Dan Manajemen Agroindustri*.
- Nam, K. H., Sung, M. W., & Hwang, K. Y. (2009). Structural insights into the substrate recognition of  $\beta$ -glucosidase. *Biochemical and Biophysical Research Communications*, 391, 1131–1135. <https://doi.org/10.1016/j.bbrc.2009.12.038>
- Nanda, P.T., Siregar, S.A., Kurniawan, R., Hairuidin, Meriyanti, dan Yatno. 2017. Isolasi, Karakterisasi dan Uji Potensi Bakteri Penghasil Enzim Termostabil Air Panas Kerinci. *Chempublish Journal*, 2(1), 26–31.

- Nandi, A., Yan, L.-J., Jana, C. K., & Das, N. (2019). Role of Catalase in Oxidative Stress- and Age-Associated Degenerative Diseases. *Oxidative Medicine and Cellular Longevity*, 2019, 1–19. <https://doi.org/10.1155/2019/9613090>
- Nemmaru, B., Douglass, J., Yarbrough, J. M., Dechellis, A., Shankar, S., Thokkadam, A., Wang, A., & Chundawat, S. P. S. (2024). *Supercharged cellulases show superior thermal stability and enhanced activity towards pretreated biomass and cellulose*. (July), 1–13. <https://doi.org/10.3389/fenrg.2024.1372916>
- Ningsih, P. A., Hendriany, S., Oktavia, P., & Wulandari, T. (2023). *Identifikasi Mikroba Udara Isolat Pink di Laboratorium Mikrobiologi Identification of Airborne Microbes Isolate Pink In Microbiology*. 381–392.
- Nurwahyudin, D. S., & Harmoko, U. (2020). *Pemanfaatan dan Arah Kebijakan Perencanaan Energi Panas Bumi di Indonesia sebagai Keberlanjutan Maksimalisasi Energi Baru Terbarukan*. *Jurnal Energi Baru dan Terbarukan*, 1(3), 111–123. <https://doi.org/10.14710/jebt.2020.10032>
- Okpara, M. O. (2022). *Microbial enzymes and their applications in food industry: A mini-review*. *Advances in Enzyme Research*, 10(1), 23–47. <https://doi.org/10.4236/aer.2022.101002>
- Ovy Sonia, N. M., & Kusnadi, J. (2015). Isolasi dan Karakterisasi Parsial Enzim Selulase dari Isolat Bakteri OS-16 Asal Padang Pasir Tengger-Bromo. *Jurnal Pangan Dan Agroindustri*, 3(4), 11–19.
- Park, S.-H., Ransom, C., Mei, C., Sabzikar, R., Qi, C., Chundawat, S., Dale, B., & Sticklen, M. (2011). The quest for alternatives to microbial cellulase mix production: corn stover-produced heterologous multi-cellulases readily deconstruct lignocellulosic biomass into fermentable sugars. *Journal of Chemical Technology & Biotechnology*, 86(5), 633–641. <https://doi.org/10.1002/jctb.2584>
- Pollitt, E. J. G., & Diggle, S. P. (2017). Defining motility in the Staphylococci. *Cellular and Molecular Life Sciences : CMLS*, 74(16), 2943–2958. <https://doi.org/10.1007/s00018-017-2507-z>
- Pratiwi, W. M., Asri, M. T., Biologi, J., Matematika, F., Pengetahuan, I., Universitas, A., & Surabaya, N. (2022). *Identification of Pesticide Prophenophos and Chlorantraniliprole Indigenous Degrading Bacteria in Jombang East Java*. 11(2), 300–309. <https://journal.unesa.ac.id/index.php/lenterabio/index300>
- Pujiati, Ardhi, Muh. W., & Prasetyo, E. N. (2018). Bioteknologi Berbasis Proyek (produksi purifikasi enzim selulase dari kapang trichoderma virde dan potensinya dalam bioscouring). *Suparyanto Dan Rosad* (2015, 5(3), 248–253.

- Purahong, W., et al. (2016). *Life in leaf litter: novel insights into community dynamics of bacteria and fungi during litter decomposition*. *Molecular Ecology*, 25(16), 4059–4074.
- Puspitasari, D., & Ibrahim, M. (2021). *Optimasi aktivitas selulase ekstraseluler isolat bakteri EG 2 isolasi dari bungkil kelapa sawit (Elaeis guineensis Jacq.)*. *LenteraBio: Berkala Ilmiah Biologi*, 9(1), 42–50. <https://doi.org/10.26740/lenterabio.v9n1.p42-50>
- Ranawat, P., & Rawat, S. (2017). Stress response physiology of thermophiles. *Archives of Microbiology*, 199(3), 391–414. <https://doi.org/10.1007/s00203-016-1331-4>
- Ranganathan, S., Mahesh, S., Suresh, S., Nagarajan, A., Z. Sen, T., & M.Yennamalli, R. (2022). Experimental and computational studies of cellulases as bioethanol enzymes. *Bioengineered*, 13(5), 14028–14046. <https://doi.org/10.1080/21655979.2022.2085541>
- Richana, N., Yusuf, G. M., Lestari, P., & Damardjati, D. S. (1999). *Cultivation of Thermophilic Bacteria Isolate of  $\alpha$ -Amylase Production memberikan kesimpulan sama dengan hasil kultivasi sistem*. 4(2).
- Rigoldi, F., Donini, S., Redaelli, A., Parisini, E., & Gautieri, A. (2018). Review: Engineering of thermostable enzymes for industrial applications. *APL Bioengineering*, 2(1). <https://doi.org/10.1063/1.4997367>
- Romero-Rodríguez, A., Ruiz-Villafán, B., Martínez-de la Peña, C. F., & Sánchez, S. (2023). Targeting the Impossible: A Review of New Strategies against Endospores. In *Antibiotics* (Vol. 12, Number 2). MDPI. <https://doi.org/10.3390/antibiotics12020248>
- Rosso, L., Lobry, J. R., Bajard, S., & Flandrois, J. P. (1995). *Convenient Model To Describe the Combined Effects of Temperature and pH on Microbial Growth*. *Applied and Environmental Microbiology*, 61(2), 610–616. <https://doi.org/10.1128/aem.61.2.610-616.1995>
- Santana, M. L., Santos, A., Lima, G., Júnior, V., & De, S. A. (2023). *Production and Characterization of Carboxymethylcellulase Submerged Fermentation of Moniliophthora perniciosa by*. 1–14. <https://doi.org/10.21926/cr.2302019>
- Schiraldi, A. (2023). The Growth Curve of Microbial Cultures: A Model for a Visionary Reappraisal. *Applied Microbiology*, 3(1), 288–296. <https://doi.org/10.3390/applmicrobiol3010020>
- Schröder, C., Burkhardt, C., & Antranikian, G. (2020). What we learn from extremophiles. *ChemTexts*, 6(1), 1–6. <https://doi.org/10.1007/s40828-020-0103-6>
- Schultz, J., Parise, M. T. D., Parise, D., Medeiros, L. G., Sousa, T. J., Kato, R. B., Uetanabaro, A. P. T., Araújo, F., Ramos, R. T. J., de Castro Soares, S., Brenig, B., de

- Carvalho Azevedo, V. A., Góes-Neto, A., & Rosado, A. S. (2022). Unraveling the Genomic Potential of the Thermophilic Bacterium *Anoxybacillus flavithermus* from an Antarctic Geothermal Environment. *Microorganisms*, 10(8). <https://doi.org/10.3390/microorganisms10081673>
- Segato, F., Damásio, A. R. L., de Lucas, R. C., Squina, F. M., & Prade, R. A. (2014). Genomics Review of Holocellulose Deconstruction by Aspergilli. *Microbiology and Molecular Biology Reviews*, 78(4), 588–613. <https://doi.org/10.1128/mmbr.00019-14>
- Setyoko, H., & Utami, B. (2016). *Isolasi dan Karakterisasi Enzim Selulase Cairan Rumen Sapi untuk Hidrolisis Biomassa Isolation and Characterization of Cellulase Enzymes Cow 's Liquid Rumen for Biomass Hydrolysis*. 13(1), 863–867.
- Singh, G., Bhalla, A., Kaur, P., Capalash, N., & Sharma, P. (2011). Laccase from prokaryotes: A new source for an old enzyme. *Reviews in Environmental Science and Biotechnology*, 10(4), 309–326. <https://doi.org/10.1007/s11157-011-9257-4>
- Tláškal, V., Voříšková, J., & Baldrian, P. (2016). *Bacterial succession on decomposing leaf litter exhibits a specific occurrence pattern of cellulolytic taxa and potential decomposers of fungal mycelia*. *FEMS Microbiology Ecology*, 92(11), fiw177.
- Ughy, B., Nagyapati, S., Lajko, D. B., Letoha, T., Prohaszka, A., Deeb, D., Der, A., Pettko-Szandtner, A., & Szilak, L. (2023). Reconsidering Dogmas about the Growth of Bacterial Populations. *Cells*, 12(10). <https://doi.org/10.3390/cells12101430>
- Ugras, S., Bicen, H. E. I., & Emire, Z. (2024). Determination of Cellulase Enzyme Produced by *Bacillus cereus* DU-1 Isolated from Soil, and Its Effects on Cotton Fiber. *Brazilian Archives of Biology and Technology*, 67. <https://doi.org/10.1590/1678-4324-2024230391>
- Vijayakumar, T., Divya, B., Vasanthi, V., Narayan, M., Kumar, A. R., & Krishnan, R. (2023). Diagnostic Utility of Gram Stain for Oral Smears - A Review. *Journal of Microscopy and Ultrastructure*, 11(3), 130–134. [https://doi.org/10.4103/jmau.jmau\\_108\\_22](https://doi.org/10.4103/jmau.jmau_108_22)
- Waheeb, M. S., Elkhatib, W. F., Yassien, M. A., & Hassouna, N. A. (2024). Optimized production and characterization of a thermostable cellulase from *Streptomyces thermodiastaticus* strain. *AMB Express*, 14(1), 129. <https://doi.org/10.1186/s13568-024-01787-0>
- Wahlström, R., Rahikainen, J., Kruus, K., & Suurnäkki, A. (2014). Cellulose hydrolysis and binding with *Trichoderma reesei* Cel5A and Cel7A and their core domains in ionic liquid solutions. *Biotechnology and Bioengineering*, 111(4), 726–733. <https://doi.org/https://doi.org/10.1002/bit.25144>

- Wang, Q., Cen, Z., & Zhao, J. (2015). The survival mechanisms of thermophiles at high temperatures: An angle of omics. *Physiology*, 30(2), 97–106. <https://doi.org/10.1152/physiol.00066.2013>
- Wilson, D., & Kostylev, M. (2012). Cellulase Processivity. *Methods in Molecular Biology* (Clifton, N.J.), 908, 93–99. [https://doi.org/10.1007/978-1-61779-956-3\\_9](https://doi.org/10.1007/978-1-61779-956-3_9)
- Wisnandary, M. C., & Alamsyah, O. (2012). Zero generation of Muara Laboh numerical model: Role of heat loss and shallow wells data on preliminary natural state modeling. *Transactions - Geothermal Resources Council*, 36 2, 825–830.
- Wolski, P., Blankenship, B. W., Umar, A., Cabrera, M., Simmons, B. A., Sale, K. L., & Achinivu, E. C. (2023). Factors that influence the activity of biomass-degrading enzymes in the presence of ionic liquids—a review. *Frontiers in Energy Research*, Volume 11-2023. <https://doi.org/10.3389/fenrg.2023.1212719>
- Wulandari, D., Budiharjo, A., Putri, A. A. K., & Setiarto, R. H. B. (2025). Diversity of Thermophilic Bacteria Isolated from Extreme Environments in Indonesia: A Perspective in Biotechnology Applications. *Journal of Tropical Biodiversity and Biotechnology*, 10(3), jtbb19548. <https://doi.org/10.22146/jtbb.19548>
- Yakupova, E. I., Bobyleva, L. G., Vikhlyantsev, I. M., & Bobylev, A. G. (2019). Congo Red and amyloids: history and relationship. *Bioscience Reports*, 39(1). <https://doi.org/10.1042/BSR20181415>
- Yang, W., Hong, W., Huang, Y., Li, S., Li, M., Zhong, H., et al. (2022). Exploration on the Cr(VI) resistance mechanism of a novel thermophilic Cr(VI)-reducing bacteria *Anoxybacillus flavithermus* ABF1 isolated from Tengchong geothermal region, China. *Environmental Microbiology Reports*, 14(5), 795–803. <https://doi.org/10.1111/1758-2229.13070>
- Zegadło, K., Gieroń, M., Żarnowiec, P., Durlik-Popińska, K., Kręcis, B., Kaca, W., & Czerwonka, G. (2023). Bacterial Motility and Its Role in Skin and Wound Infections. In *International Journal of Molecular Sciences* (Vol. 24, Number 2). MDPI. <https://doi.org/10.3390/ijms24021707>
- Zhang, Y. H. P., & Lynd, L. R. (2004). Toward an aggregated understanding of enzymatic hydrolysis of cellulose: Noncomplexed cellulase systems. *Biotechnology and Bioengineering*, 88(7), 797–824. <https://doi.org/10.1002/bit.20282>