

DAFTAR PUSTAKA

- A. Amiri Delouei, Meysam Atashafrooz, Gh.R. Kefayati, & Sajjad Karimnejad. (2022). The thermal effects of multi-walled carbon nanotube concentration on an ultrasonic vibrating finned tube heat exchanger. *International Communications in Heat and Mass Transfer*, 135, 106098–106098. <https://doi.org/10.1016/j.icheatmasstransfer.2022.106098>
- Ahn, J., & Jang, J. H. (2018). Combustion characteristics of a 16 step grate-firing wood pellet boiler. *Renewable Energy*, 129, 678–685. <https://doi.org/10.1016/j.renene.2017.06.015>
- Alfani, G. (2021). Pengaruh Gas Hidrogen Dari Larutan Sodium Hidroksida Terhadap Emisi Buang Dan Konsumsi Bahan Bakar Pada Kendaraan Bermotor. *Jurnal Simetrik*, 11(1), 417. <https://doi.org/10.31959/js.v11i1.674>
- Andalucia, S. (2023). Analisis Perpindahan Panas Penukar panas Tipe Shell And Tube Pada Gas Turbine Generator. *Petro: Jurnal Ilmiah Teknik Perminyakan*, 11(4), 181–190. <https://doi.org/10.25105/petro.v11i4.15345>
- Anggraeni Tuty. (2017). *Proses dan Manfaat Teh*. Rumah kayu Pustaka Utama.
- Astari, N. M. M., Suciptawati, N. L. P., & Sukarsa, I. K. G. (2014). Penerapan Metode Bootstrap Residual Dalam Mengatasi Bias Pada Penduga Parameter Analisis Regresi. *E-Jurnal Matematika*, 3(4), 130. <https://doi.org/10.24843/mtk.2014.v03.i04.p075>
- Bardant, T. B., Haq, M. S., Rahman Setiawan, A. A., Harianto, S., Waluyo, J., Mastur, A. I., Lestari, A. D., Sulaswatty, A., Sujarwo, S., Rinaldi, N., & Wiloso, E. I. (2019). The Renewability Indicator and Cumulative Degree of Perfection for Gamboeng Tea; Part.2, Exergy Calculation of Tea Factory. *Jurnal Kimia Terapan Indonesia*, 20(2), 79–89. <https://doi.org/10.14203/jkti.v20i2.400>
- Bary Septian, Paul David Rey, & Aziz, A. (2021). Desain Dan Rancang Bangun Alat Penukar Kalor (Penukar panas) Jenis Shell Dan Tube. *Jurnal Baud Dan Manufaktur*, 3(01), 52–60.
- Burmawi Burmawi, Mulyanef Mulyanef, & Angga Pratama Saputra. (2021). Analisa Unjuk Kerja Dari Penukar panas Tipe Shell And Tube Menggunakan Air Sebagai Fluida Panas Dan Fluida Dingin (KINERJA Analysis Of Shell And Tube Penukar panas Using Water As Hot And Cold Fluid). *Menara Ilmu*, 15(1). <https://doi.org/10.31869/mi.v15i1.2341>
- Büchner, D., Schraube, C., Carlon, E., Justus von Sonntag, Schwarz, M., Verma, V., & Ortwein, A. (2015). Survey of modern pellet boilers in Austria and Germany – System design and customer satisfaction of residential installations. *Applied Energy*, 160, 390–403. <https://doi.org/10.1016/j.apenergy.2015.09.055>
- Cakra, G. A., & Munandar, J. M. (2020). Analisis Daya Saing Komoditas Teh Hitam Curah Indonesia di Pasar Global (Studi Kasus di Negara Russia). *Jurnal Manajemen Dan Organisasi*, 11(1), 57–70. <https://doi.org/10.29244/jmo.v11i1.28556>

- Carlson, E., Schwarz, M., Golicza, L., Verma, V. K., Prada, A., Baratieri, M., Haslinger, W., & Schmidl, C. (2015). Efisiensi and operational behavior of small-scale pellet boilers installed in residential buildings. *Applied Energy*, 155, 854–865. <https://doi.org/10.1016/j.apenergy.2015.06.025>
- Chakraborty, A., & Goswami, D. (2017). *Prediction of slope stability using multiple linear regression (MLR) and artificial neural network (ANN)*. *Arabian Journal of Geosciences*, 10(17). <https://doi.org/10.1007/s12517-017-3167-x>
- Choe, K. (2021). Review of Wood Biomass Cyclone Burner. *Energies*, 14(16), 4807. <https://doi.org/10.3390/en14164807>
- Choi, S. H., & Manousiouthakis, V. I. (2020). On the carbon cycle impact of combustion of harvested plant biomass vs. fossil carbon resources. *Computers & Chemical Engineering*, 140, 106942. <https://doi.org/10.1016/j.compchemeng.2020.106942>
- Dale, V. H., Kline, K. L., Parish, E. S., Cowie, A. L., Emory, R., Malmsheimer, R. W., ... Trianosky, P. (2017). *Status and prospects for renewable energy using wood pellets from the southeastern United States*. *GCB Bioenergy*, 9(8), 1296–1305. <https://doi.org/10.1111/gcbb.12445>
- Darussalam, M. H., Rusnadi, I., & Zurohaina, Z. (2022). Uji Kompur Gas Biomassa Menggunakan Berbagai Jenis Isolator Ditinjau dari Efisiensi Termal dengan Metode Water Boiling Test. *Jurnal Pendidikan Dan Teknologi Indonesia*, 2(1), 547–551. <https://doi.org/10.52436/1.jpti.133>
- Deng, M., Li, P., Shan, M., & Yang, X. (2020). Optimizing supply airflow and its distribution between primary and secondary air in a forced-draft biomass pellet stove. *Environmental Research*, 184, 109301. <https://doi.org/10.1016/j.envres.2020.109301>
- Di Giacomo, G., & Taglieri, L. (2009). Renewable energy benefits with conversion of woody residues to pellets. *Energy*, 34(5), 724–731. <https://doi.org/10.1016/j.energy.2008.08.010>
- Didik Sugiyanto, & Kusmono. (2014). Pengaruh Komposisi Dan Ukuran Serbuk Briket Yang Terbuat Dari Batubara Dan Jerami Padi Terhadap Karakteristik Pembakaran. *Jurnal Sainstech Politeknik Indonusa Surakarta*, vol 2.
- Fakheri, A. (2006). Penukar panas Efisiensi. *Journal of Heat Transfer*, 129(9), 1268–1276. <https://doi.org/10.1115/1.2739620>
- Febrianti, F., Hafiyusholeh, Moh., & Asyhar, A. H. (2016). Perbandingan Pengklusteran Data Iris Menggunakan Metode K-Means Dan Fuzzy C-Means. *Jurnal Matematika "MANTIK,"* 2(1), 7. <https://doi.org/10.15642/mantik.2016.2.1.7-13>
- Gardjito. 2011. *Teh*. Yogyakarta: Kanisius halaman 20
- Geladi, P., & Kowalski, B. R. (1986). Partial least-squares regression: a tutorial. *Analytica Chimica Acta*, 185, 1–17. [https://doi.org/10.1016/0003-2670\(86\)80028-9](https://doi.org/10.1016/0003-2670(86)80028-9)
- Harimurti, D. T., & Harsono, S. S. (2022). Analisis Pengaruh Pemberian Pengatur Tegangan Blower Pada Kompur Terhadap Efisiensi Pembakaran. *Agrotechnology Innovation (Agrinova)*, 4(1), 15. <https://doi.org/10.22146/a.74267>
- Himawanto, D. A. (2013). Penentuan Energi Aktivasi Pembakaran Briket Char Sampah Kota Dengan Menggunakan Metoda Thermogravimetry Dan

- Isothermal Furnace. *Rotasi*, 15(3), 35.
<https://doi.org/10.14710/rotasi.15.3.35-42>
- Islam, M. M., Wathore, R., Zerriffi, H., Marshall, J. D., Bailis, R., & Grieshop, A. P. (2021). In-use emissions from biomass and LPG stoves measured during a large, multi-year cookstove intervention study in rural India. *Science of the Total Environment*, 758, 143698.
<https://doi.org/10.1016/j.scitotenv.2020.143698>
- Johansson, L. S., Leckner, B., Gustavsson, L., Cooper, D., Tullin, C., & Potter, A. (2004). Emission characteristics of modern and old-type residential boilers fired with wood logs and wood pellets. *Atmospheric Environment*, 38(25), 4183–4195.
<https://doi.org/10.1016/j.atmosenv.2004.04.020>
- Jolvis Pou, K. R., Paul, S. K., & Malakar, S. (2019). Industrial Processing of CTC Black Tea. *Caffeinated and Cocoa Based Beverages*, 131–162.
<https://doi.org/10.1016/b978-0-12-815864-7.00004-0>
- José Carlos Teixeira, Vasconcelos, B., & Manuel Eduardo Ferreira. (2009, January 1). Simulation of a Small Scale Pellet Boiler. IMECE2009, Lake Buena Vista, Florida, USA. <https://doi.org/10.1115/imece2009-11133>
- Kayo, C., Tojo, S., Masahiro Iwaoka, & Matsumoto, T. (2014). *Evaluation of Biomass Production and Utilization Systems*. 309–346.
<https://doi.org/10.1016/b978-0-12-404609-2.00014-3>
- Klepcka, A. M., & Florkowski, W. J. (2022). An Opportunity for Renewable Energy: Wood Pellet Use by Rural Households. *Handbook of Climate Change Mitigation and Adaptation*, 1087–1120. https://doi.org/10.1007/978-3-030-72579-2_110
- Kumar, K. R., Dashora, K., Kumar, S., Dharmaraja, S., Sanyal, S., Aditya, K., & Kumar, R. (2023). A review of drying technology in tea sector of industrial, non-conventional and renewable energy based drying systems. *Applied Thermal Engineering*, 224, 120118.
<https://doi.org/10.1016/j.applthermaleng.2023.120118>
- Lee, Y.-W., Ryu, C., Lee, W.-J., & Park, Y.-K. (2011). Assessment of wood pellet combustion in a domestic stove. *Journal of Material Cycles and Waste Management*, 13(3), 165–172. <https://doi.org/10.1007/s10163-011-0014-0>
- Maharan, S. H., & Kholis, N. (2020). Studi Literatur: Pengaruh Penggunaan Sensor Gas Terhadap Persentase Nilai Error Karbonmonoksida (Co) Dan Hidrokarbon (Hc) Pada Prototipe Vehicle Gas Detector (Vgd). *Jurnal Teknik Elektro Unesa*, 9(3). <https://doi.org/10.26740/jte.v9n3.p%p>
- Mardiatmoko, G. (2020). Pentingnya Uji Asumsi Klasik Pada Analisis Regresi Linier Berganda. *Barekeng: Jurnal Ilmu Matematika Dan Terapan*, 14(3), 333–342. <https://doi.org/10.30598/barekengvol14iss3pp333-342>
- Masud, M. H., Islam, T., Joardder, M. U. H., Ananno, A. A., & Dabnichki, P. (2019). CFD analysis of a tube-in-tube penukar panasto recover waste heat for food drying. *International Journal of Energy and Water Resources*, 3(3), 169–186. <https://doi.org/10.1007/s42108-019-00032-w>
- Maulana, H. S., & Kurniawan, A. (2019). Pengaruh Kecepatan Aliran Udara Panas Terhadap Kualitas Pengeringan Keripik Porang dengan Dimensi Ruang Pengering 1 m³ Menggunakan Heater 700 Watt. *Jurnal IPTEK*, 23(2), 87–92. <https://doi.org/10.31284/j.ipitek.2019.v23i2.539>

- M.I. Nizovtsev, V.Yu. Borodulin, V.N. Letushko, A.A. Zakharov. (2015), Analysis of the Efisiensi of air-to-air penukar panas with a periodic change in the flow direction, *Jouranl Thermal Engineering* <http://dx.doi.org/doi:10.1016/j.applthermaleng.2015.09.029>
- Mirmanto, M., Mulyanto, A., & Hidayatullah, L. R. (2018). Hubungan Ketinggian Dan Diameter Lubang Udara Tungku Pembakaran Biomassa Dan Efisiensi Tungku. *Jurnal Teknik Mesin*, 6(4), 225. <https://doi.org/10.22441/jtm.v6i4.2048>
- Mohammadi, M. H., Abbasi, H. R., Yavarinasab, A., & Pourrahmani, H. (2020). Thermal optimization of shell and tube penukar panas using porous baffles. *Applied Thermal Engineering*, 170, 115005. <https://doi.org/10.1016/j.applthermaleng.2020.115005>
- Nasution, S. (2017). Variabel Penelitian. *Jurnal Raudhah*, 5(2). <http://dx.doi.org/10.30829/raudhah.v5i2.182>.
- Nugroho, B. (2011). Aplikasi sistem Pendeteksi Kadar Gas Buang Kendaraan Bermotor. *Jurnal Informatika*, 11(2). <https://doi.org/10.30873/ji.v11i2.187>
- Nunes, L. J. R., Matias, J. C. O., & Catalão, J. P. S. (2016). Wood pellets as a sustainable energy alternative in Portugal. *Renewable Energy*, 85, 1011–1016. <https://doi.org/10.1016/j.renene.2015.07.065>
- Prasetyo, Y. (2021). desain mesin burner oven tembakau dengan bakar biomassa wood pellet. *Jurnal Crankshaft*, 4(1), 1–8. <https://doi.org/10.24176/crankshaft.v4i1.5839>
- Purnomo Jati, S. (2021). Analisis Pengaruh Variasi Bahan Bakar Biomassa Dan Pola Tiupan Udara Terhadap Efisiensi Kompor Gasifikasi Tipe Updraft. *E-Proceeding of Engineering*, 8(2).
- Prayoga, A. R., Zuki, M., & Dany, Y. (2021). Contribution Of Motion Study To Standard Time At Ball Tea Station (Case Study Pt. Mitra Kerinci, South Solok). *Jurnal Agroindustri*, 11(2), 92–107. <https://doi.org/10.31186/j.agroindustri.11.2.92-107>
- Putri Wilujeng Lestari, Harianto, S. P., M Iqbal Prawira-Atmaja, Mery Andriyani, S Shabri, Hilman Maulana, & Selly Harnesa Putri. (2022). Identifikasi Sifat Fisik Produk Samping dari Mesin Ball Tea pada Pengolahan Teh Hijau. *Teknotan: Jurnal Industri Teknologi*, 16(2), 85–85. <https://doi.org/10.24198/jt.vol16n2.4>
- Qona'ah, N., Pratiwi, H., & Susanti, Y. (2021). Model Output Statistics Dengan Principal Component Regression, Partial Least Square Regression, Dan Ridge Regression Untuk Kalibrasi Prakiraan Cuaca Jangka Pendek. *Jurnal Matematika UNAND*, 10(3), 355. <https://doi.org/10.25077/jmu.10.3.355-368.2021>
- Rahayuningtyas, A., & Kuala, S. I. (2016). Pengaruh Suhu Dan Kelembaban Udara Pada Proses Pengeringan Singkong (Studi Kasus : Pengering Tipe Rak). *ETHOS (Jurnal Penelitian Dan Pengabdian)*, 99. <https://doi.org/10.29313/ethos.v0i0.1663>
- Ramakrishna, P. 1999. Energi for Tea Manufacture. In: N. K. Jain (ed.). *Global Advances in Tea Science*. Aravoli Books International, Ltd. New Delhi. Pp: 841 – 844.
- Ramanda, M. R., Nurjanah, S., & Widhyasanti, A. (2021). Audit Energi Proses Pengolahan Teh Hitam (Ctc) Dengan Sistem Pengambilan Keputusan Metode Space. *Jurnal Teknik Pertanian Lampung (Journal of*

Agricultural Engineering), 10(2), 183. <https://doi.org/10.23960/jtep-l.v10i2.183-192>

- Ramlan, M. (2002). Pemanasan Global (Global Warming). *Jurnal Teknologi Lingkungan*, 3(1). <https://doi.org/10.29122/jtl.v3i1.233>.
- Rohdiana, D. (2015). Teh: proses, karakteristik dan komponen fungsionalnya. *Food Review Indonesia*, 10(8), 34-37.
- Rohman, S. A., Abdurrahman, A., & Amrullah, S. (2022). Pengaruh Kecepatan Udara Primer Dan Sekunder Terhadap Kinerja Kompor Biomassa Berbahan Bakar Cangkang Kemiri. *Jurnal Pengendalian Pencemaran Lingkungan (JPPL)*, 4(1), 39–48. <https://doi.org/10.35970/jtpl.v4i1.1200>
- Ridhuan, K., Irawan, D., Zanaria, Y., & Firmansyah, F. (2019). Pengaruh Jenis Biomassa Pada Pembakaran Pirolisis Terhadap Karakteristik Dan Efisiensi bioarang - Asap Cair Yang Dihasilkan. *Media Mesin: Majalah Teknik Mesin*, 20(1), 18–27. <https://doi.org/10.23917/mesin.v20i1.7976>
- Roy, M. M., Dutta, A., & Corscadden, K. (2013). An experimental study of combustion and emissions of biomass pellets in a prototype pellet furnace. *Applied Energy*, 108, 298–307. <https://doi.org/10.1016/j.apenergy.2013.03.044>
- Sabam, D., Sinambela, S., Ariswoyo, Henry, R., & Sitepu. (2014). Menentukan Koefisien Determinasi Antara Estimasi M Dengan Type Welsh Dengan Least Trimmed Square Dalam Data Yang Mempunyai Pencilan. *Saintia Matematika*, 02(03), 225–235.
- Sadeghianjahromi, A., & Wang, C.-C. (2021). Heat transfer enhancement in fin-and-tube heat exchangers – A review on different mechanisms. *Renewable and Sustainable Energy Reviews*, 137, 110470. <https://doi.org/10.1016/j.rser.2020.110470>
- Sharma, S., & Sheth, P. N. (2016). Air–steam biomass gasification: Experiments, modeling and simulation. *Energy Conversion and Management*, 110, 307–318. <https://doi.org/10.1016/j.enconman.2015.12.030>
- Setiani, V., Rohmadhani, M., Setiawan, A., & Maulidya, R. D. (2019, December). Potensi Emisi dari Pembakaran Biobriket Ampas Tebu dan Tempurung Kelapa. In *Seminar MASTER PPNS (Vol. 4, No. 1, pp. 115-118)*.
- Setyawan, E. Y., Lomi, A., & Saleh, C. (2021). *Used Of Wood Pellet For Fuel Production Tofu In Ukm Kab. Kediri*. *JASTEN (Jurnal Aplikasi Sains Teknologi Nasional)*, 2(2), 22–28. <https://doi.org/10.36040/jasten.v2i2.4306>
- Somantri, R. (2013). *Kisah dan khasiat teh*. Gramedia Pustaka Utama
- Sugiharto, A. (2020). Perhitungan Efisiensi Boiler Dengan Metode Secara Langsung pada Boiler Pipa Api. *Majalah Ilmiah Swara Patra*, 10(2), 51–57. <https://doi.org/10.37525/sp/2020-2/260>
- Sutawinaya, P., Gede Arya Astawa, N., & Dessy Hariyanti, K. (2017). Perbandingan Metode Jaringan Saraf Tiruan Pada Peramalan Curah Hujan. *Logic : Jurnal Rancang Bangun Dan Teknologi*, 17(12). <http://dx.doi.org/10.31940/logic.v17i2.542>
- Suwarsono, S. (2019). *Characterization and Modification of Secondary Combustion on Biomass Stoves for Low Emission*. *Seminar Nasional*

- Teknologi Dan Rekayasa (SENTRA) 2, 4(4), 61–64.
<https://doi.org/10.22219/sentra.v0i4.2275>
- Siburian, M. D., Kumaat, M. M., & Rumayar, A. L. E. (2023). Analisis Kapasitas Dan Indeks Tingkat Pelayanan Jalan (Studi Kasus : Jl. W.R.Supratman Depan Minimarket – Masjid Raya Ahmad Yani). *TEKNO*, 21(84), 639–649. p-issn: 0215-9617
- Toscano, G., Duca, D., Amato, A., & Pizzi, A. (2014). Emission from realistic utilization of wood pellet stove. *Energy*, 68, 644–650.
<https://doi.org/10.1016/j.energy.2014.01.108>
- Towaha, J. 2013. Kandungan Senyawa Kimia pada Daun Teh (*Camellia sinensis*). *Warta Penelitian dan Pengembangan Tanaman Industri* 19 (3): 12-16
- Venturini, E., Vassura, I., Agostini, F., Pizzi, A., Toscano, G., & Passarini, F. (2018). Effect of fuel quality classes on the emissions of a residential wood pellet stove. *Fuel*, 211, 269–277.
<https://doi.org/10.1016/j.fuel.2017.09.017>
- Wang, C., Zhang, L., & Liu, J. (2013). *Cost of non-renewable energy in production of wood pellets in China*. *Front. Earth Sci.*, 7(2), 199–205.
<https://doi.org/10.1007/s11707-013-0358-y>
- Wibowo, N. I., & Arief, M. R. B. (2020). Pemanfaatan Teknologi Tepat Guna Kompor Roket Dengan Formulasi Bahan Bakar Pelet Kayu Dan Kayu Sengon. *Agroscience (AGSCI)*, 10(2), 136.
<https://doi.org/10.35194/agsci.v10i2.1156>
- Wu, J., Hu, J., Zhao, X., Sun, Y., & Hu, G. (2023). Role of tea plantations in the maintenance of bird diversity in Anji County, China. *PeerJ*, 11, e14801–e14801. <https://doi.org/10.7717/peerj.14801>
- Wold, S., Sjöström, M., & Eriksson, L. (2001). *PLS-regression: a basic tool of chemometrics*. *Chemometrics and Intelligent Laboratory Systems*, 58(2), 109–130. [https://doi.org/10.1016/s0169-7439\(01\)00155-1](https://doi.org/10.1016/s0169-7439(01)00155-1)
- Yoon, S., Lee, S.-R., & Go, G.-H. (2015). Evaluation of thermal Efisiensi in different types of horizontal ground heat exchangers. *Energy and Buildings*, 105, 100–105. <https://doi.org/10.1016/j.enbuild.2015.07.054>
- Yuliati, L., Hamidi, N., dan Pragiwaka, R. E. 2022. *Combustion Characteristics of A Wood Pellet Made of Albizia Chinensis and Rice Husk*. *International Journal of Mechanical Engineering Technologies and Applications*, 3(1): 55-61.