

DAFTAR PUSTAKA

- Abdemanafi, D., Meshkatee, A., & Hejam, S. 2021. The Study Of Ph, Total Dissolved Solids (Tds), Electrical Conductivity (Ec), Total Alkalinity And Total Hardness Of Rain Water Over Tehran City. *Journal Of Climate Research*, 1399(44), 1-14.
- Adams, H., Burlingame, G., Ikehata, K., Furatani, L., & Suffet, I. H. (Mel). 2022. The Effect Of Ph On Taste And Odor Production And Control Of Drinking Water. *Journal Of Water Supply: Research And Technology-Aqua*, 71(11), 1278–1290.
- Afandi, A. M., Rijal, I., & Aziz, T. 2017. Pengaruh Waktu Dan Tegangan Listrik Terhadap Limbah Cair Rumah Tangga Dengan Metode Elektrolisis. *Jurnal Teknik Kimia*, 23(2) : 114-119.
- Akbar Maulana, M. R., & Suryo Purnomo, Y. 2023. Pengaruh Variasi Waktu Dan Tegangan Listrik Terhadap Penurunan Kandungan Beban Pencemar Air Sumur Di Desa Lakardowo Kabupaten Mojokerto Dengan Metode Kombinasi Elektrolisis Klorinasi. *Jurnal Envirotek*, 15(2): 98–105.
- Akhmadi, Z., Chitra, F., & Wulantika, D. 2023. The Influence Of Electrode Plate Area In Reducing Turbidity And Color Levels In Peat Water. *Poltekita : Jurnal Ilmu Kesehatan*, 17(3), 996–1007.
- Aladenola, O. O., & Adeboye, O. B. 2010. Assessing The Potential For Rainwater Harvesting. *Water Resources Management*, 24(10): 2129–2137.
- Artmann, E., Menezes, P., Forschner, L., Elnagar, M., Kibler, L., Jacob, T., ... & Engstfeld, A. 2021. Structural Evolution Of Pt, Au And Cu Anodes By Electrolysis Up To Contact Glow Discharge Electrolysis In Alkaline Electrolytes**. *Chemphyschem*, 22(23): 2429-2441.
- Buttler, A., & Spliethoff, H. 2018. Current Status Of Water Electrolysis For Energy Storage, Grid Balancing And Sector Coupling Via Power-To-Gas And Power-To-Liquids: A Review. *Renewable And Sustainable Energy Reviews*, 82, 2440–2454.
- Cavaliere, P. 2023. Fundamentals Of Water Electrolysis. In P. Cavaliere (Ed.), *Water Electrolysis For Hydrogen Production* (Pp. 1–60). Springer International Publishing.

- Chatenet, M., Pollet, B. G., Dekel, D. R., Dionigi, F., Deseure, J., Millet, P., Braatz, R. D., Bazant, M. Z., Eikerling, M., Staffell, I., Balcombe, P., Shao-Horn, Y., & Schäfer, H. 2022. Water Electrolysis: From Textbook Knowledge To The Latest Scientific Strategies And Industrial Developments. *Chemical Society Reviews*, 51(11), 4583–4762.
- Chi, J., & Yu, H. 2018. Water Electrolysis Based On Renewable Energy For Hydrogen Production. *Chinese Journal Of Catalysis*, 39(3): 390–394.
- Chopra, A. K., & Sharma, A. K. 2013. Removal Of Turbidity, COD And BOD From Secondarily Treated Sewage Water By Electrolytic Treatment. *Applied Water Science*, 3(1), 125–132.
- Du, H., Wang, Z., Sun, Y., & Shah, K. J. 2024. An Overview Of The Progress Made In Research On Odor Removal In Water Treatment Plants. *Water*, 16(2), 280.
- Erabee, I. K., Ahsan, A., Jose, B., Arunkumar, T., Sathyamurthy, R., Idrus, S., & Daud, N. N. N. 2017. Effects Of Electric Potential, NaCl, Ph And Distance Between Electrodes On Efficiency Of Electrolysis In Landfill Leachate Treatment. *Journal Of Environmental Science And Health, Part A*, 52(8), 735–741.
- Erliana, S. R., Ubay, I. N., Pangestu, I. S., Atik, M. U. D., & Wafa', A. D. 2024. *Optimization Of Alkaline Water Production From Rainwater Through Electrolysis Method: Effect Of Voltage And Time On Ph And Tds*. 22(1).
- Fitriyanti, F. 2019. Analisis Produktivitas Gas Hidrogen Berdasarkan Arus Dan Tegangan Pada Proses Elektrolisis H₂O. *Jft : Jurnal Fisika Dan Terapannya*, 6(2), 154.
- Gafur, A., Kartini, A. D., & Rahman. 2017. Studi Kualitas Fisik Kimia Dan Biologis Pada Air Minum Dalam Kemasan Berbagai Merek Yang Beredar Dikota Makassar Tahun 2016. *Jurnal Higiene*, 3(1):37–46.
- Haque, M. M., Rahman, A., & Samali, B. 2016. Evaluation Of Climate Change Impacts On Rainwater Harvesting. *Journal Of Cleaner Production*, 137, 60–69.
- Hasan, N. Y. 2019. Chemical Composition And Sources Attribution Of Rainwater In Bandung Area, Indonesia. *International Journal Of Geomate*, 17(64).
- Herlambang, Y. D., Kurnianingsih, K., Roihatin, A., & Arifin, F. 2021. Unjukkerja Electrolyzer Tipe Dry Cell Terhadap Variasi Konsentrasi Elektrolit Dan Arus Listrik Pada Mesin Pem Fuel Cell Skala Kecil Untuk Pembangkit Listrik. *Jurnal Rekayasa Mesin*, 16(3): 447.

- Heryani, N. 2022. Pengembangan Teknologi Panen Air Untuk Memenuhi Kebutuhan Domestik. *Jurnal Sumberdaya Lahan*, 15(2): 117.
- Hidayah, H., Suhendar, D., Sudiarti, T., & Maesaroh, E. 2019. Studi Keadaan Oksidasi Besi Pada Air Hujan. *Al-Kimiya*, 6(1): 15–21.
- Janani, N. M. 2018. Pengolahan Air Limbah Reverse Osmosis Melalui Elektrolisis Untuk Menghasilkan Elektrolit Bernilai Ekonomi. *Purifikasi*, 18(1): 11–18.
- Jing, L., Chen, M., & Cai, H. (2019). Study On Preparation Conditions Of Electrolyzed Reduced Alkaline Water. *Iop Conference Series: Earth And Environmental Science*, 356(1), 012014.
- Khalid, B. 2023. Multivariate Analysis Of Harvested Rainwater Quality Utilizing Sustainable Solar-Energy-Driven Water Treatment. *Sustainability*, 15(19): 14568.
- Khayan, K., Heru Husodo, A., Astuti, I., Sudarmadji, S., & Sugandawaty Djohan, T. 2019. Rainwater As A Source Of Drinking Water: Health Impacts And Rainwater Treatment. *Journal Of Environmental And Public Health*, 2019, 1–10.
- Khayan, K., & Anwar, T. (2016). Efektivitas Pasir dan Karbon Aktif dalam Menurunkan Kekeruhan dan Timbal Pada Air Hujan. *Jurnal Vokasi Kesehatan*, 2(2), 143-151.
- Koseki, M., Fujiki, S., Tanaka, Y., Noguchi, H., & Nishikawa, T. 2006. Effect Of Water Hardness On The Taste Of Alkaline Electrolyzed Water. *Journal Of Food Science*, 70(4), S249–S253.
- Kuckshinrichs, W., Ketelaer, T., & Koj, J. C. 2017. Economic Analysis of Improved Alkaline Water Electrolysis. *Frontiers in Energy Research*, 5.
- Kyzas, G. Z., & Matis, K. A. 2018. Flotation In Water And Wastewater Treatment. *Processes*, 6(8), 116.
- Lade, O., Oloke, D., Chinyio, E., & Fullen, M. 2013. *Potential For Potable Water Savings By Using Rainwater: A Case Study Of Ibadan, Nigeria*.
- Logozzi, M., Mizzoni, D., Di Raimo, R., Andreotti, M., Macchia, D., Spada, M., & Fais, S. 2020. *In Vivo* Antiaging Effects Of Alkaline Water Supplementation. *Journal Of Enzyme Inhibition And Medicinal Chemistry*, 35(1), 657–664.
- Marcharis, A. L., Haditya, A., & Yulianty, R. A. 2018. *Pengaruh Variasi Elektroda (G-G; G-Ss; G-Ti; Ti-Ss) Pada Proses Elektrolisis Air Untuk Sintesis Biodiesel Tanpa Katalis*.

- Marlina, E., Wahyudi, S., & Yuliati, L. 2013. Produksii Brown's Gas Hasil Elektrolisis H₂O Dengan Katalis Nahco₃. *Jurnal Rekayasa Mesin*, 4(1): Article 1.
- Mazloomi, S. K., & Sulaiman, N. (2012). Influencing Factors Of Water Electrolysis Electrical Efficiency. *Renewable And Sustainable Energy Reviews*, 16(6), 4257–4263.
- Muchtar, S. J., & Rustana, C. E. 2020. Studi Pengaruh Jenis Elektroda Terhadap Produksi Gas Hidrogen Dengan Proses Elektrolisis Air. *Prosiding Seminar Nasional Fisika (E-Journal)*, 9, Snf2020fa-5.
- Mukaromah, H. 2020. Rainwater Harvesting As An Alternative Water Source In Semarang, Indonesia: The Problems And Benefits. *Iop Conference Series: Earth And Environmental Science*, 447(1): 012059.
- Muktiningsih, S. D., & Putri, D. M. A. R. M. S. 2021. Study Of The Potential Use Of Rainwater As Clean Water With Simple Media Gravity Filters: A Review. *Iop Conference Series: Earth And Environmental Science*, 733(1): 012147.
- Muthaharussayidun, M., Anis, S., & Aryadi, W. 2019. Uji Produksi Gas Hidrogen Melalui Elektrolisis Plasma Air Laut Dengan Katalis Koh Dan Zat Aditif Etanol. *Jurnal Inovasi Mesin*, 1(1): Article 1.
- Nnaji, C. C., & Nnam, J. P. 2019. Assessment Of Potability Of Stored Rainwater And Impact Of Environmental Conditions On Its Quality. *International Journal Of Environmental Science And Technology*, 16(12), 8471–8484.
- Özdemir, S., Elliott, M., Brown, J., Nam, P. K., Thi Hien, V., & Sobsey, M. D. 2011. Rainwater Harvesting Practices And Attitudes In The Mekong Delta Of Vietnam. *Journal Of Water, Sanitation And Hygiene For Development*, 1(3): 171–177.
- Parman, P., Hendrasakti, J., & Juangsa, F. B. (2024). Analisis Tekno Ekonomi Sistem Hidrogen Hijau Dengan Model Matlab Simulink Di Lombok Indonesia. *Jurnal Teknik Industri Terintegrasi*, 7(4), 2314–2327.
- Peraturan Menteri Kesehatan Nomor 2 Tahun 2023 Tentang Kesehatan Lingkungan. 2023. Kementerian Kesehatan. Jakarta
- Purnama, A., Priatmoko, S., & Wahyuni, S. 2013. Sintesis Ni-TiO₂ Dengan Metode Sol-Gel Dan Uji Aktivitasnya Pada Dekomposisi Air. *Indonesian Journal Of Chemical Science*, 2(3).
- Pushpalatha, N., Sreeja, V., Karthik, R., & Saravanan, G. 2022. Total Dissolved Solids And Their Removal Techniques. *International Journal Of Environmental Sustainability And Protection*, 2(2), 13–20.

- Putra, A. Y., & Mairizki, F. 2023. *Pengaruh Variasi Elektroda Terhadap Ph, Degradasi Cod Dan Pb Menggunakan Metode Elektrokoagulasi*. 8(1).
- Rahman, N. A. 2021. *Experimental Studies On Continuous Electrocoagulation Treatment Of Peat Water In Sarawak With Copper Electrodes*. 13(2).
- Rashid, M., Mesfer, M. K. A., Naseem, H., & Danish, M. 2015. *Hydrogen Production By Water Electrolysis: A Review Of Alkaline Water Electrolysis, Pem Water Electrolysis And High Temperature Water Electrolysis*. 4(3).
- Riyadi, P. I. 2023. Mandeja (Alat Pemanfaatan Air Dan Debit Hujan) Sebagai Solusi Ketersediaan Air Sehat Layak Konsumsi. *Inisiasi*, 129–139.
- S.N.A, F., Ismail, A., Universiti Sultan Zainal Abidin, Juahir, H., East Coast Environmental Research Institute, Ahmad, R. B., Universiti Malaysia Perlis, L., F., East Coast Environmental Research Institute, Umar, R., East Coast Environmental Research Institute, Kamarudin, M. K. A., Universiti Sultan Zainal Abidin, N.H., M., & East Coast Environmental Research Institute. 2022. Rainwater Harvesting Opportunities: Water Resource Sustainability. *Journal Of Sustainability Science And Management*, 17(1): 84–98.
- Safrijal, M. 2023. Produksi Gas Hidrogen Dari Air Laut Dengan Metode Elektrolisis Photovoltaic (Pv) Menggunakan Elektroda Karbon. *Chemical Engineering Journal Storage (Cejs)*, 3(2): 163.
- Sardi, Sriyono, E., & Sutoyo, N. 2023. Efforts To Improve Rainwater Quality To Support Clean Water Needs Using Filtration Media. *Iop Conference Series: Earth And Environmental Science*, 1266(1): 012031.
- Sarofah, A. K. 2021. Pengaruh Limbah Tahu Terhadap Kualitas Air Sungai Di Desa Mejing Kecamatan Candimulyo. *Indonesian Journal Of Nature Science Education (Ijnse)*, 4(1): 400-403.
- Setiawan, A. A., Lumbantoruan, P., & Novaldo, E. 2021. Pemanfaatan Elektroda Karbon Dan Aluminium Untuk Menurunkan Ion-Ion Terlarut Limbah Stockpile Batubara. *Jurnal Redoks*, 6(2): 117–126.
- Silvia, C. S., Ikhsan, M., Safriani, M., & Gusmilia, T. P. 2021. Efficiency Rainwater Harvesting At The Roof Campus Buildings. *International Journal Of Engineering, Science And Information Technology*, 1(3): 17–22.
- Simoës, S. G., Catarino, J., Picado, A., Lopes, T. F., Di Berardino, S., Amorim, F., Gírio, F., Rangel, C. M., & Ponce De Leão, T. 2021. Water Availability And Water Usage Solutions For Electrolysis In Hydrogen Production. *Journal Of Cleaner Production*, 315, 128124.

- Siregar, M. A., Umurani, K., & Damanik, W. S. 2020. Pengaruh Jenis Katoda Terhadap Gas Hidrogen Yang Dihasilkan Dari Proses Elektrolisis Air Garam. *Media Mesin: Majalah Teknik Mesin*, 21(2): 57-65.
- Sulistiani, H., Miswanto, M., Alita, D., & Dellia, P. 2020. Pemanfaatan Analisis Biaya Dan Manfaat Dalam Perhitungan Kelayakan Investasi Teknologi Informasi. *Edutic - Scientific Journal Of Informatics Education*, 6(2).
- Syl, I. 2010. *Perilaku Sel Elektrolisis Air Dengan Elektroda Stainless Steel*.
- Syl, I., Yuanita, D., & Pratomo, H. 2015. Pemecahan Molekul Air Dengan Menggunakan Media Tepung Umbi Dahlia (Dahlia Pinnata). *Jurnal Sains Dasar*, 4(2), 173.
- Tran, S. H., Dang, H. T. T., Dao, D. A., Nguyen, V.-A., Nguyen, L. T., Nguyen, V.-A., & Han, M. 2021. On-Site Rainwater Harvesting And Treatment For Drinking Water Supply: Assessment Of Cost And Technical Issues. *Environmental Science And Pollution Research*, 28(10): 11928–11941.
- Un Water (Ed.). 2020. *Water And Climate Change*. Unesco.
- Ursu' A A, Gandi' A Lm, Sanchis P. Hydrogen Production From Water Electrolysis: Current Status And Future Trends. *Proc Ieee* 2012;100(2):410e26.
- Valente, G. D. F. S., Mendonça, R. C. S., & Pereira, J. A. M. 2015. The Efficiency Of Electrocoagulation Using Aluminum Electrodesin Treating Wastewater From A Dairy Industry. *Ciência Rural*, 45(9): 1713–1719.
- Wang, B. B. 2021. *Research On Drinking Water Purification Technologies For Household Use By Reducing Total Dissolved Solids (Tds)*.
- Watson, S. B. 2004. Aquatic Taste And Odor: A Primary Signal Of Drinking-Water Integrity. *Journal Of Toxicology And Environmental Health, Part A*, 67(20–22), 1779–1795.
- Widayanti, G., Widodo, D. S., & Haris, A. 2012. Elektrodekolorisasi Perairan Tercemar Limbah Cair Industri Batik Dan Tekstil Di Daerah Batang Dan Pekalongan. *Jurnal Kimia Sains Dan Aplikasi*, 15(2): 62–69.
- Yehia, H. M. A.-S., & Said, S. M. 2021. Drinking Water Treatment: Ph Adjustment Using Natural Physical Field. *Journal Of Biosciences And Medicines*, 09(06): 55–66.
- Zdeb, M., Zamorska, J., Papciak, D., & Słyś, D. 2020. The Quality Of Rainwater Collected From Roofs And The Possibility Of Its Economic Use. *Resources*, 9(2), 12.

- Zhang, W., Sheng, J., Li, Z., Weindorf, D. C., Hu, G., Xuan, J., & Zhao, H. 2021. Integrating Rainwater Harvesting And Drip Irrigation For Water Use Efficiency Improvements In Apple Orchards Of Northwest China. *Scientia Horticulturae*, 275, 109728.
- Zoulas, E., Varkaraki, E., Lymberopoulos, N., Christodoulou, C. N., & Karagiorgis, G. N. 2004. A Review On Water Electrolysis. *Tcjst*, 4(2): 41-71.
- Zulfa, L., Kumalaningsih, S., & Effendi, M. 2014. *Ekstraksi Pewarna Alami Dari Daun Jati (Tectona Grandis) (Kajian Konsentrasi Asam Sitrat Dan Lama Ekstraksi) Dan Analisa Tekno-Ekonomi Skala Laboratorium*. 3(1).

