



Laporan Hasil Penelitian

“Sintesis Ferri Klorida (FeCl_3) dari Limbah Logam Besi Sebagai Koagulan Berbasis Logam”

DAFTAR PUSTAKA

- Abdel-Fatah, M. A. 2021. “Cost-effective Clean Electrochemical Preparation of Ferric Chloride and Its Applications. *Egyptian Journal of Chemistry*, Vol. 64, No. 7 3841-3851
- Audrieth, Ludwig F. 1950. *Inorganic Syntheses, Volume III*. New York: McGraw-Hill Book Company, Inc.
- Avner, Sidney H. 1974. *Introduction To Physical Metallurgy*. Singapore: McGraw-Hill Book Co.
- Bratby J. 2016. *Coagulation and Flocculation in Water and Wastewater Treatment 3rd Edition*. IWA Publishing
- Bancroft, W. D. 1934. "Oxidation and Reduction with Hydrogen Peroxide", *Journal of Physical Chemistry*, Vol. 39, No. 3 377-397
- Catherine E. Housecroft, Alan G. Sharpe. 2005. *Inorganic Chemistry, Second Edition*. Harlow: Pearson Education Limited.
- Cotton, Simon A. 2018. "Iron (III) Chloride and Its Coordination Chemistry." *Journal of Coordination Chemistry*, Vol. 71, No. 21 1-41.
- Davis, Joseph R. 1998. *Metals Handbook, Desk Edition*. Ohio: ASM International Handbook Committee.
- Dheanti Rizky Amelia, Fitriyana. 2021. "Pengaruh Konsentrasi HCl Terhadap Sintesis Koagulan Ferri Klorida Sebagai Upaya Penanggulangan Limbah Logam Fe Pasca Regenerasi Proses Adsorpsi." *Jurnal Chemurgy*, Vol. 05, No. 01 38-44.
- Ela Daniati, Mastura, Hasby. 2021. "Isolasi Penentuan Kadar Minyak Nilam (Pogostemon Cablin Benth) Asal Peunaron Aceh Timur Menggunakan GC-MS." *KATALIS Jurnal Penelitian Kimia dan Pendidikan Kimia*. Vol. 04, No. 01 14-22.
- Fadhel Muhammad Juharna, Ita Widowati, Hadi Endrawati. 2022. "Kandungan Logam Berat Timbal (Tb) dan Kromium (Cr) Pada Kerang Hijau (Perna Viridis) di Perairan Morosari, Sayung, Kabupaten Demak." *Buletin Oseanografi Marina*, Vol. 11, No. 02 139-148.
-



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“Sintesis Ferri Klorida (FeCl_3) dari Limbah Logam Besi Sebagai Koagulan Berbasis Logam”

- Hussein, Amir, Jan, Khalil, Azizi. 2022. "Colloidal Stability of CA, SDS and PVA Coated Iron Oxide Nanoparticles (IONPs): Effect of Molar Ratio and Salinity". *Polymers*, Vol. 14, No. 4787 1-16
- Hossain, Sahadat., Ahmed. 2022. "Synthesis of nano-crystallite gypsum and bassanite from waste Pila globosa shells: crystallographic characterization". *RSC Advances*, Vol. 12, No. 1 25096-25105
- House, James E. 2020. *Inorganic Chemistry, Third Edition*. London: Elsevier Inc.
- Howe, Kerry J. 2012. *Principles of Water Treatment*. John Wiley & Sons, Inc.
- Indryani Saputri, Fatimatuzzahra, Yetti Lestari. 2023. "Analisa Kadar COD (Chemical Oxygen Demand) pada Limbah Cair Disekitar Kawasan Penambangan Batubara Kabupaten Bengkulu Utara." *Organisms*, Vol. 03, No. 02 9-15.
- Jorge Bedia, Manuel Peñas-Garzón, Almudena Gómez-Avilés, Juan J. Rodriguez, Carolina Belver. 2020. "Review on Activated Carbons by Chemical Activation with FeCl_3 ." *Journal of Carbon Research*, Vol. 06, No. 21 1-25.
- Khasanah, U., Hintono, Pramono. 2020. "Pengaruh Oksidasi Menggunakan H_2O_2 Terhadap Kadar Air dan Derajat Kecerahan Pati Ganyong (Canna edullis kerr.)." *Jurnal Teknologi Pangan*, Vol. 4, No. 1 12-16
- Manahan, Stanley. 2017. *Environmental Chemistry, 10th Edition*. London: CRC Press.
- Thcobanoglous. 2014. *Wastewater Engineering, Treatment and Resource Recovery*. McGraw Hill Education
- Mishra, Minal. 2021. *Crystallography, Mineralogy, and Economic Geology Vol. I*. New Delhi: Indira Gandhi National Open University.
- Muawanah, Nurul Afiah, Edy Mashudi. 2020. "Penetapan Kadar Hidrogen Peroksida (H_2O_2) pada Tahu Dengan Metode Permanganometri." *Jurnal Medika: Media Ilmiah Analisis Kesehatan*, Vol. 06, No. 02 9-13.
- Nelly Rofiatul Umah, Tri Joko, Hanan Lanang Dangiran. 2018. "Efektivitas Dosis Ferri Klorida (FeCl_3) Dalam Menurunkan Kadar Chemical Oxygen
-



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“Sintesis Ferri Klorida (FeCl_3) dari Limbah Logam Besi Sebagai Koagulan Berbasis Logam”

- Demand (COD) pada Limbah Pabrik Tahu di Tempelsari Kalikajar Wonosobo." *Jurnal Kesehatan Masyarakat*, Vol. 06, No. 06 279-289.
- Ningsih, Sherly Kasuma Warda. 2016. *Sintesis Anorganik*. Padang: UNP Press.
- Norman Neil Greenwood, A. Earnshaw. 1998. *Chemistry of The Elements, Second Edition*. Oxford: Reed Educational and Professional Publishing Ltd.
- Nuraini, E. D. 2017. Sintesis Pigmen Geothit ($\alpha\text{-FeOOH}$) dari Limbah Bubut Besi dengan Variasi Suhu Sintesis, *Jurusan Kimia*. Universitas Islam Negeri Maulanan Malik Ibrahim Malang.
- Omnya A. El-Battrawy, Mervat A. El-Sonbati, Ebsteam M. Al-Awadly, Talaat A. Hegazy. 2020. "Study on Ferric Chloride Coagulation Process and Fenton's Reaction for Pretreatment of Diary Wastewater." *Current Science International*, Vol. 09, No. 01 87-96.
- Rachmawati, S.W., Iswanto, B., Winarni. 2009. "Pengaruh pH Pada Proses Koagulasi Dengan Koagulan Aluminium Sulfat dan Ferri Klorida" *JTL*, Vol. 5, No. 2 8-13
- Reem M. El-Taweel, Nora Mohamed, Khlood A. Alrefaey, Sh Husein, A.B. Abdel-Aziz, Alyaa I. Salim, Nagwan G. Mostafa, Lobna A. Said, Irene Samy Fahim, Ahmed G. Radwan. 2023. "A Review of Coagulation Explaining its Definition, Mechanism, Coagulant Types, and Optimization Models; RSM, and ANN." *Current Research in Green Sustainable Chemistry*, Vol. 06, No. 03 1-23.
- Rizki Agustina, Ida Zahrina, Sunarno. 2020. "Aplikasi Katalis Homogen Pada Sintesis Emulsifier." *Jurnal Online Mahasiswa Fakultas Teknik*, Vol. 07, No. 02 1-5.
- Robert H. Perry, Don W. Green. 2008. *Perry's Chemical Engineers' Handbook, Eight Edition*. New York: The McGraw-Hill Companies, Inc.
- Saifuddin, M. 2007. "Effects of Pre-Chlorination on Alum Coagulation." *Departement of Civil Engineering*, Bangladesh University of Engineering and Technology Dhaka.
-



Laporan Hasil Penelitian

“Sintesis Ferri Klorida (FeCl_3) dari Limbah Logam Besi Sebagai Koagulan Berbasis Logam”

- Sibiya, N. P., Rathilal, S., Tetteh, E. K. 2021. "Coagulation Treatment of Wastewater: Kinetics and Natural Coagulat Evaluation." *Molecules*, Vol. 26, No. 698 1-15.
- Singh, D. N. 2012. *Basic Concepts of Inorganic Chemistry, 2nd Edition*. Chandigarh: Pearson Education in South Asia.
- Sunardi, Maria Endah Prasadja, Ferdianta Sembiring. 2015. "Sintesis Ferri Klorida dari Scrap Besi Bengkel Bubut." *Jurnal Ekosains*, Vol. 08, No. 02 117-120.
- T. P. Adhi, A. Raksajati, A. A. Nugroho, P.Y. Sitanggang. 2020. " FeCl_3 Coagulant Production From Waste Pickle Liquor Using Electrolysis." *IOP Conference Series: Materials Science and Engineering* 1-8.
- Theodore L. Brown, H. Eugene LeMay Jr., Bruce E. Bursten, Cathrine J. Murphy, Patrick M. Woodward, Matthew W. Stoltzfus, Michael W. Lufaso. 2017. *Chemistry The Central Science, 14th Edition*. New York: Pearson.
- Thomas F. O'Brien, Tilak V. Bommaraju, Fumio Hine. 2005. *Handbook of Chlor-Alkali Technology, Volume I: Fundamentals*. New York: Springer Science+Business Media, Inc.
- Troyanov, S.I. 1993. "Crystal Structure of FeCl_3 Polytyped Modifications." *Zhurnal Neorganicheskoi Khimii*, Vol. 38, No. 1 1946-1949.
- Victor O. Almeida, Ivo A. H. Schneider. 2020. "Production of a Ferric Chloride Coagulant by Leaching an Iron Ore Tailing." *Minerals Engineering*, Vol. 156, No. 05 1-5.
- Vincent Theodorus Siringoringo, Delianis Pringgenies, Ambariyanto. 2022. "Kajian Kandungan Logam Berat Merkuri (Hg), Tembaga (Cu), dan Timbal (Pd) pada Perna Viridis di Kota Semarang." *Journal of Marine Research*, Vol. 11, No. 03 539-546.
- Wadees Y. Odhaib, Ali J. Jaeel. 2023. "Color and COD Removal from Textile Effluent Using Alum and FeCl_3 Coagulation." *Wasit Journal of Engineering Sciences*, Vol. 11, No. 01 126-133.