



DAFTAR PUSTAKA

- Ade Trisnawati. (2024). View of Kajian Prosedur Penentuan Harga Kelarutan dan Tetapan Hasil Kali Kelarutan (K_{sp}) sebagai Bahan Materi Praktikum Kimia Dasar. *Jurnal Ilmu Komputer Dan Ilmu Pengetahuan Alam*, 2(4), 149–156.
- Amalia, Z.N. et al. (2021) 'Structural equation modeling in motivation analysis for millennial participation related to general elections in Indonesia,' *ESTIMASI*, pp. 29–37.
- Amrulloh, H., Situmeang, R., & Simanjuntak, W. (2016). Konversi Mg^{2+} Dalam Bittern menjadi $Mg(OH)_2$ Menggunakan Metode Elektrokimia. *Prosiding Seminar Nasional Sains Matematika Informatika dan Aplikasinya IV*, 4(1), 23-30
- Battaglia, G., Domina, M. A., Lo Brutto, R., Lopez Rodriguez, J., Fernandez de Labastida, M., Cortina, J. L., Pettignano, A., Cipollina, A., Tamburini, A., & Micale, G. (2023). Evaluation of the Purity of Magnesium Hydroxide Recovered from Saltwork Bitterns. *Water (Switzerland)*, 15(1), 1–22.
- Darwis, A., Sembada, P. H., Taufany, F., & Altway, A. (2022). Pra Desain Pabrik Magnesium hidroksida dari Limbah Tambak Garam (bittern). *Journal of Fundamentals and Applications of Chemical Engineering (JFACHE)*, 3(2), 44. <https://doi.org/10.12962/j2964710x.v3i2.18887>
- Edwards, A.A. and Alexander, B.D. (2016) *UV-visible absorption spectroscopy, organic applications*. 3rd edn, *Encyclopedia of Spectroscopy and Spectrometry*. 3rd edn. Elsevier Ltd.
- Fatimah, S. et al. (2022) 'How to Calculate Crystallite Size from X-Ray Diffraction (XRD) using Scherrer Method', *ASEAN Journal of Science and Engineering*, 2(1), pp. 65–76.
- Fisher. (2015), *Safety Data Sheet : Magnesium Metal Turnings*, Fisher Scientific, Waltham.



LAPORAN HASIL PENELITIAN

Sintesis dan Karakterisasi MgCl_2 dari Bittern dengan Metode Kalsinasi

- Huang, L., Chang, J., Liu, M., Zhang, L, Zhang, Z., & Li, Z.(2020). Influence Of Calcination Temperature On The Structure and Hydration of MgO . *Construction and Building Materials*, 251, 118992.
<https://doi.org/10.1016/j.conbuildmat.2020.120776>
- Jiříčková, A., Lojka, M., Lauermannová, A. M., Antončík, F., Sedmidubský, D., Pavlíková, M., Záleská, M., Pavlík, Z., & Jankovský, O. (2020). Synthesis, structure, and thermal stability of magnesium oxychloride $5\text{Mg}(\text{OH})_2 \cdot \text{MgCl}_2 \cdot 8\text{H}_2\text{O}$. *Applied Sciences (Switzerland)*, 10(5).
- Kipouros, G. J., & Sadoway, D. R. (2001). A thermochemical analysis of the production of anhydrous MgCl_2 . *Journal of Light Metals*, 1(2), 111–117.
[https://doi.org/10.1016/S1471-5317\(01\)00004-9](https://doi.org/10.1016/S1471-5317(01)00004-9)
- Liu, P., Dong, J., Chang, C., Zheng, W., Liu, X., & Xiao, X. (2021). Preparation of Low-Cost Magnesium Oxychloride Cement Using Magnesium Residue Byproducts from the Production of Lithium Carbonate from Salt Lakes. *Materials*, 14(14),3827. <https://doi.org/10.3390/ma14143827>
- Na, C. K., Park, H., & Jho, E. H. (2017). Utilization of waste bittern from saltern as a source for magnesium and an absorbent for carbon dioxide capture. *Environmental Science and Pollution Research*, 24(29), 22980–22989.
<https://doi.org/10.1007/s11356-017-9913-5>.
- Nadiyya, A., Tri, A., & Sumarni, W. (2022). Jurnal Kimia Sains dan Aplikasi Congo Red Dye Adsorption using Magnesium Hydroxide from Seawater Bittern. 25(6), 205–211
- Nayak, N., & Panda, C. R. (2017). Novel technique for the preparation of refractory grade magnesia from bittern through double salt route. *Indian Journal of Chemical Technology*, 24(5), 319-326
- Nuzula N. *et al.* (2020), “Analisa Komposisi Kimia Pada Bittern”, *Seminar Nasional Kahuripan*.
- Rahmawati, E. *et al.* (2015) ‘Analysis of Metal Copper Concentration at Candy using Atomic Absorption Spectrophotometry (AAS)’, *Alchemy*, 4(1), pp. 39–43.



LAPORAN HASIL PENELITIAN

Sintesis dan Karakterisasi MgCl_2 dari Bittern dengan Metode Kalsinasi

- Shahjooei, M., Hormati, A. R., & Rezai, B. (2019). Amirkabir Journal of Civil Engineering The Selective Extraction of Magnesium Components from Bittern Using NaOH: Experimental and Pilot Scale Studies. Civil Eng, 51(1), 19–22. <https://doi.org/10.22060/ceej.2017.12842.5279>
- Shirazi, L., Zamani, Y., & Bahadoran, F. (2015). Recovery of magnesium salts from bitterns by fractional crystallization method. Petroleum and Coal, 57(3), 199–204.
- Shofi A. *et al.* (2020), “Pengaruh Penambahan Aditif MgCl_2 Pada Proses Reduksi Selektif Bijih Limonit”, *Jurnal Riset Teknologi Industri*, pp 36-44.
- Solihin, Arini, T., & Febriana, E. (2012). Synthesis of Ultra Fine Grain Magnesium Carbonate Part 1. Calcination Behaviour of Indonesian Dolomite. Majalah Metalurgi, 27(3), 273–278.
- Suwarno J. *et al.* (2001), ‘Hubungan Densiti Dengan Konsentrasi Senyawa Makro di Dalam Proses Pemekatan Bittern ‘, *Jurnal Teknik Kimia*.
- Herlina, U., Yusuf, M. and Sukmana, I. (2022) 'Pengaruh variasi temperatur sinter terhadap kualitas produksi magnesium AZ31 dengan tube furnace,' JPM (Jurnal Material Dan Proses Manufaktur), 5(2), pp. 147–155.
- Maritawati D. (2021). Pengaruh Variasi Waktu dan Suhu Kalsinasi Terhadap Kualitas Burn Lime (CaO)
- Balai Standarisasi Dan Pelayanan Jasa Industri Surabaya (2024). Laboratorium Pengujian Dan Kalibrasi Alat Kesehatan. 360, 1–2
- Raesta R.A, Ninik I.E, Siti I. L, and Laeli (2017) 'Pemanfaatan Bittern (Air Tua) Garam Untuk Pembuatan Peel Of Maskdengan Ekstrak Daun Pepaya Sebagai Anti Jerawat', Jurnal Seminar Nasional Sains dan Teknologi
- Randazzo, S., Vicari, F., López, J., Salem, M., Lo Brutto, R., Azzouz, S., Chamam, S., Cataldo, S., Muratore, N., Fernández de Labastida, M., Vallès, V., Pettignano, A., D’Alì Staiti, G., Pawlowski, S., Hannachi, A., Cortina, J.L., & Cipollina, A. (2024). Unlocking hidden mineral resources: Characterization and potential of bitterns as alternative sources of critical raw



LAPORAN HASIL PENELITIAN

Sintesis dan Karakterisasi MgCl_2 dari Bittern dengan Metode Kalsinasi

- materials. *Journal of Cleaner Production*, 436(1), 140412.
<https://doi.org/10.1016/j.jclepro.2023.140412>
- Ulinuha M. *et al.* (2022), “Ekstraksi Magnesium pada Dolomit Menggunakan Pelarut Asam Fosfat”, *Journal Of Chemical and Process Engineering*, Vol. 3, No. 1, pp.69-74.
- Wang, M. J., Bai, L. M., Ma, Y. X., & Li, M. (2024). Research on the influence of thermal decomposition of magnesium chloride hexahydrate on the preparation of magnesium oxide and hydrated magnesium hydroxide. *Physicochemical Problems of Mineral Processing*, 60(5), 193614.
<https://doi.org/10.37190/ppmp/193614>
- Wildayati, & Rahadian, 2019, *Magnesium Klorida (MgCl_2): Karakteristik Dan Dinamika Molekuler Pada MgCl_2* , Universitas Negeri Padang, Indonesia.
- Zefri. (2013), *Magnesium Klorida Dari Magnesium Hidroksida Dan Asam Klorida*
- Zuchrillah D., 2017, "Pengaruh Suhu dan Waktu Furnace dalam Pembuatan $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ Dari Bittern", *Seminar Nasional SAINS dan Teknologi Terapan*, 189-194