



DAFTAR PUSTAKA

- Ali, M. I., Schneider, P.A., (2005) ‘Crystallization of struvite from metastable region with different types of seed crystal’, *Journal of Non-Equilibrium Thermodynamics*. 95–111.
- Ariyanto, E., Melani, A. and Anggraini, T. (2014) ‘Penyisihan Po 4 Dalamair Limbah Rumah Sakit Untuk’. 1–8.
- Booker, N.A., Priestley, A.J., Fraser, I.H., 1999. Struvite formation in wastewater treatment plants: opportunities for nutrient recovery. *Environ. Technol.* 20, 777–782.
- Badan Standar Nasional Indonesia. (2005) ‘Pupuk fosfat alam untuk pertanian’. 1-2. BSN, Jakarta
- Djukri. (2009) ‘Regulasi Ion Kalsium (Ca^{++}) Dalam Tanaman Untuk Menghadapi Cekaman Lingkungan’. 56–61.
- Doyle, J. D. dan Parsons, S. A. 2002. *Struvite Formation, Control and Recovery*. Water Research. Vol. 36, No. 16. p. 3925-3940.
- Edahwati, L., Dyah, S.P., Sutiyono., (2016) ‘Effects of the optimised pH and molar ratio on struvite precipitation in aqueous system’.58.
- Fattah, K. P. (2012) ‘Assessing Struvite Formation Potential at Wastewater Treatment Plants’, *International Journal of Environmental Science and Development*. 548–552.
- Galbraith, S.C., Schneider, P.A., 2009. A review of struvite nucleation studies. In: Ashley, K., Mavinic, D.S., Koch, F. (Eds.), *International Conference on Nutrient Recovery from Wastewater Streams*. IWA Publishing, London, UK, ISBN 9781843392323.
- Geankoplis, J 1978, *Transport Process and Unit Operations*, Prentice-Hall, New Jersey.
- Handayani, F. W. *et al.* (2013) ‘Review: Teknik Peningkatan Kelarutan Obat’, *Farmaka*. 1–15.
- Hutnik, N., Piotrowski, K., Wierzbowska, B., Matynia, A., 2011. Continuous reaction crystallization of struvite from phosphate(V) solutions containing



calcium ions. *Cryst. Res. Technol.* 46, 443– 449

Ida, T., Kustyorini, W. and Hidayati, P. I. (2018) ‘Jurnal Sains Peternakan Urine Terhadap Daya Tumbuh Kecambah Kaliandra (*Calliandra calothyrsus*). 47–52.

Istiyati, Dwi, A 2013,’ Fabrikasi dan Karakterisasi Keramik Kalsium Silikat dari Komposisi Cangkang Gelur dan Silika Komersial dengan Reaksi Padatan pada Suhu 1300 oC,’ *Jurnal Teori dan Aplikasi Fisika*, vol.01, no.01, hh.37-42

Jones, A.G., 2002. *Crystallization Process System*. Butterworth Heinemann, Oxford, Great Britain.

Le Corre, K.S., Valsami-Jones, E., Hobbs, P., Parsons, S.A., 2005. Impact of calcium on struvite crystal size, shape and purity. *J.Cryst. Growth* 283, 514– 522.

Laili Mei Ari Putri, D. (2017) ‘Pengaruh Konsentrasi Terhadap Laju Kenaikan Suhu’. 147–153.

Li, B., Irina, B., (2019) ‘Phosphorus recovery through struvite crystallisation: Recent developments in the understanding of operational factors’, *Journal of Environmental Management*. 109254.

Liu, X., Wang, J. (2019) ‘Impact of calcium on struvite crystallization in the wastewater and its competition with magnesium’, *Chemical Engineering Journal*. 122121.

Mullin, J.W., 1993. *Crystallization*. Butterworth-Heinemann, Oxford.

Naka, K. (2003) ‘Effect of Dendrimers on the Crystallization of Calcium’, *Anion Sensing*. 141–158.

Nongqwenga, N., Pardon, M., Jeffrey, H., (2017) ‘Possible use of struvite as an alternative phosphate fertilizer’, *Journal of Soil Science and Plant Nutrition*. 581–593.

Ohlinger, K.N., Young, T.M., Schroeder, E.D., 1999. Kinetics effects on preferential struvite accumulation in wastewater. *J. Environ. Eng.* 125, 730– 737.



- Perwitasari, D.S, Sari, N.W., Putri, F.A., (2020) ‘Manufacture of Phosphate Fertilizer from Cow Bones Waste’ *International Journal of Eco-Innovation in Science and Engineering*. Vol. 01. 28
- Regy, S., Mangin, D., Klein, J.P., Lieto, J., 2002. Lagep Report. Phosphate recovery by struviteprecipitation in a stirred reactor. Lagep (laboratoire automatique et de genie des procedes)/CEEP (Centre Europe’ en d’Etude des Polyphosphates), available at/ <http://www.nhm.ac.uk/researchcuration/departments/mineralogy/researchgroups/phosphaterecovery/LagepReportS.PDF> 1–65.
- Sari, A.N. (2016) ‘Pengaruh Kecepatan Pengadukan dan Perbandingan Molar Reaktan Mg:PO₄ Pada Pembentukan Struvite Kristal dari Urine Manusia’. 11.
- Setyoprato, P., Siswanto, W. and Ilham, H. (2003) ‘Studi Eksperimental Pemurnian Garam NaCl Dengan Cara Rekristalisasi’, *Unitas*. 17–28.
- Shih, K. and Yan, H. (2016) *The Crystallization of Struvite and Its Analog (K-Struvite) From Waste Streams for Nutrient Recycling, Environmental Materials and Waste:Resource Recovery and Pollution Prevention*.124-141
- Sutiyono., Edahwati, L., Rendri, R (2021) ‘The Formation of Struvite Fertilizer from Tempeh Industrial Wastewater by Aeration Process’.33
- Wiyono., Eko, H., Mahananto (2015) ‘Efisiensi Pemakaian Pupuk Urine Manusia pada Pertumbuhan dan Hasil Padi Sawah’. 2-5
- Zhang, D. M., Yingxu, C., (2012) ‘Optimization of struvite crystallization protocol for pretreating the swine wastewater and its impact on subsequent anaerobic biodegradation of pollutants’, *Bioresource Technology*. 386–395.