

## DAFTAR PUSTAKA

- Abotsi, G. M. K., & Osseo-Asare, K. (1986). Surface chemistry of carbonaceous gold ores I. Characterization of the carbonaceous matter and adsorption behavior in aurocyanide solution. *International Journal of Mineral Processing*, 18(3–4), 217–236. [https://doi.org/10.1016/0301-7516\(86\)90019-0](https://doi.org/10.1016/0301-7516(86)90019-0)
- Adams, M. D., Swaney, S. J., Friedl, J. J., & Wagner, F. E. J. (1996). Preg-robbing Minerals in Gold Ores and Residues. *Hidden Wealth, March*, 163–172.
- Afenya, P. M. (1991). Treatment of carbonaceous refractory gold ores. *Minerals Engineering*, 4(7–11), 1043–1055. [https://doi.org/10.1016/0892-6875\(91\)90082-7](https://doi.org/10.1016/0892-6875(91)90082-7)
- Azizi, A., & Ghaedrahmati, R. (2015). Optimizing and evaluating the operational factors affecting the cyanide leaching circuit of the Aghdareh gold processing plant using a CCD model. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 471(2184). <https://doi.org/10.1098/rspa.2015.0681>
- Bailey, P.R. (1987). Application of activated carbon to gold recovery. *The Extractive Metallurgy of South Africa. Edited by G.G. Stanley. Monograph Series M7. Johannesburg: South African Institute of Mining and Metallurgy*. 379– 614.
- Barani, K., Kogani, Y., & Nazarian, F. (2022). Leaching of complex gold ore using a cyanide-glycine solution. *Minerals Engineering*.
- Benson, A., Adu, P., Woeko, S.B., & Ofori-Sarpong, G. (2020). Effects of Entrained Biomass of Phanerochaete Chrysosporium on Carbon-In-Leach Operations.
- Calfee, R., & Piontkowski, D. (2016). Design and analysis of experiments. In *Handbook of Reading Research*. <https://doi.org/10.2307/2983009>
- Celep, O., Altinkaya, P., Yazici, E. Y., & Deveci, H. (2016). Effect of ultrafine-grinding on cyanide leaching of copper bearing pyritic gold concentrate. *XV International Mineral Processing Symposium and Exhibition (IMPS)* (Eds: M.S.Çelik, G.Bulut, F.Karakas, O.Güven, H.Baştürkçü, Z.Tarsus), 19-21 October, November, 202–216.
- Crow, D.R. (1988). Principles and Applications of Electrochemistry 3rd Editions.

- London: Chapmall and Hall.
- Deschênes, G. (2016). Gold Ore Processing Project Development and Operations (Second Edition). Singapore: Fugue Pte Ltd.
- Devore, J. (2006). Statistics for Business and Economics. In *The American Statistician* (Vol. 60, Issue 4). <https://doi.org/10.1198/tas.2006.s59>.
- Dorr, J.V.N., and F.L. Bosqui. (1950). Cyanidation of Gold and Silver Ores. New York: McGraw-Hill.
- Duru, N., & Nesbitt, C.C. (2021). Remediation of reduced sulfur species effects on gold and silver recovery during cyanide leaching. *Hydrometallurgy*.
- Escobar-Ledesma, F. R., Aragón-Tobar, C. F., Espinoza-Montero, P. J., & De La Torre-Chauvin, E. (2020). Increased recovery of gold thiosulfate alkaline solutions by adding thiol groups in the porous structure of activated carbon. *Molecules*, 25(12). <https://doi.org/10.3390/molecules25122902>
- Evans, J.W. (1979). Mass transport with chemical reaction. *Minerals Science & Engineering*. 11(4):207–222.
- Fleming, C. A., Mezei, A., Bourricaudy, E., Canizares, M., & Ashbury, M. (2011). Factors influencing the rate of gold cyanide leaching and adsorption on activated carbon, and their impact on the design of CIL and CIP circuits. *Minerals Engineering*, 24(6), 484–494. <https://doi.org/10.1016/j.mineng.2011.03.021>
- Habashi, F. (1978). Chalcopyrite - its chemistry and metallurgy. New York (USA), McGraw Hill. 65-76.
- Hanifah, F. S. (2020). *T-test (T-Test) Konsep Dasar, Contoh Kasus dan Penerapan Menggunakan SPSS*. Swanstatistics Official.
- Hausen, D.M. & Bucknam, C. (1985). Study of pregrobbing in the cyanidation of carbonaceous gold ores from Carlin, Nevada. *Applied Mineralogy: proceedings of the second international congress on applied mineralogy in the minerals industry*. The Metallurgical Society of AlME. 833-856.
- Herling D. Tangkuman, J. A. dan H. M. (2019). Pengaruh Konsentrasi Sianida Terhadap Produksi Emas. *Chemistry Progress*, 1(1), 25–29.
- Hernández, J. (2012). Diagramas De Pourbaix: Herramienta Termodinámica Aplicada a Los Problemas De Corrosión.
- Kondos, P., Griffith, W.F., & Jara, J.O. (1996). The use of oxygen in gold

- cyanidation. *Canadian Metallurgical Quarterly*, 35, 39-45.
- Lima, L.R. (2007). Dynamic simulation of the carbon-in-pulp and carbon-in-leach processes. *Brazilian Journal of Chemical Engineering*, 24, 623-635.
- Marsden, J., & House, C. (2006). *The Chemistry of Gold Extraction John O Marsden and C Lain House* (pp. 1–629).
- Marvianto, R. D. (2018). *Memahami Penggunaan Signifikansi 1-tailed dan 2-tailed.*<https://www.semestapsikometrika.com/2018/07/memahamipenggunaan-signifikansi-1-tailed-dan-2-tailed.html>
- McDougall, G. J., & Hancock, R. D. (1981). Gold complexes and activated carbon - A literature review. *Gold Bulletin*, 14(4), 138–153. <https://doi.org/10.1007/BF03216558>
- McQuiston, F.W, dan R.S. Shoemaker. (1975). Gold and Silver Cyanidation Plant Practice. Volume 1. SME-AIME Monograph. Salt Lake City, UT: SMEAIME.
- Mubarok, M. Z., & Fathoni, M. W. (2016). Studi Kinetika Pelindian Bijih Nikel Limonit Dari Pulau Halmahera Dalam Larutan Asam Nitrat. *Metalurgi*, 31(1), 1–10. <http://ejurnalmaterialmetalurgi.com/index.php/metalurgi/article/view/103>
- Mudder, T. I., Botz, M. M., & Smith, A. (2001). Chemistry and Treatment of Cyanidation Wastes, Mining Journal Books Limeted. *Mining Journal Books Ltd. London.*, 373.
- Olvera, O. G., & Domanski, D. F. R. (2019). Effect of activated carbon on the thiosulfate leaching of gold. *Hydrometallurgy*, 188(June), 47–53. <https://doi.org/10.1016/j.hydromet.2019.06.005>
- Putra, A. L., Kasdi, A., & Subroto, W. T. (2019). Pengaruh Media Google Earth Terhadap Hasil Belajar Berdasarkan Keaktifan Siswa Kelas Iv Tema Indahnya Negeriku Di Sekolah Dasar. *Jurnal Review Pendidikan Dasar : Jurnal Kajian Pendidikan Dan Hasil Penelitian*, 5(3), 1034–1042.
- Sayiner, B., & Acarkan, N. (2014). Effect of silver, nickel and copper cyanides on gold adsorption on activated carbon in cyanide leach solutions. *Physicochemical Problems of Mineral Processing*, 50(1), 277–287. <https://doi.org/10.5277/ppmp140123>
- Seyedhakimi, A., Bastami, S.A., Ghassa, S., Razavi, H., & Chehreh Chelgani, S. (2018). Exploring relationships between various activations of granular activated carbon on silver and gold adsorption: A kinetic and equilibrium study. *Separation Science and Technology*, 54, 1710 - 1721.

- Shi, A. (2024). Review of gold cyanide leaching and the main factors affecting gold dissolution rate. *Naturalis Scientias*.
- Tauetsile, P., Oraby, E., & Eksteen, J.J. (2018). Adsorption behaviour of copper and gold Glycinates in alkaline media onto activated carbon. Part 2: Kinetics. *Hydrometallurgy*.
- Tauetsile, P. J., Oraby, E. A., & Eksteen, J. J. (2019). Activated carbon adsorption of gold from cyanide-starved glycine solutions containing copper. Part 2: Kinetics. *Separation and Purification Technology*, 211, 290–297. <https://doi.org/10.1016/j.seppur.2018.09.022>
- Van Den Berg, R., Petersen, F. W. (2000). Inhibition of pregrobbing phenomenon in gold ores. *Biooxidation Pretreatment of Refractory Sulfidic and Sulfidic-Carbonaceous Gold Ores and Concentrates*, December, 329–338.
- Wadnerkar, D., Utikar, R. P., Tade, M. O., & Pareek, V. K. (2012). Simulation and Analysis of Carbon-in-Leach (CIL) Circuits. *Computer Aided Chemical Engineering*, 31(July), 1206–1210. <https://doi.org/10.1016/B978-0-444-59506-5.50072-9>
- Widhiarso, W. (2011). Arti Interaksi pada Analisis Varians. 1–8.
- Witt, P.L., & McGrain, P.N. (1985). Comparing two sample means t tests. *Physical therapy*, 65 11, 1730-3 .
- Woollacott, R.P., Stange, & King, W. (1990). Towards more effective simulation of CIP and CIL processes. 1. The modelling of adsorption and leaching. *Journal of The South African Institute of Mining and Metallurgy*, 90, 275-282.
- Yannopoulos, J. c. (1991). *The Extractive Metallurgy of Gold Extractive of Gold*.
- Zafar, N., Yudhistira, S., & Hoppy, A. (2020). Peningkatan Recovery Emas Di Carbon in Leach Plant Pt. Antam Tbk Unit Bisnis Pertambangan Emas Pongkor, Jawa Barat (Studi Kasus Kadar Bijih 3,5 – 4,5 Gpt Di Plant 1). *Prosiding Temu Profesi Tahunan PERHAPI*, 1(1), 49–58. <https://doi.org/10.36986/ptptp.v1i1.49>