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- AOAA. The NOAA annual greenhouse gas index (AGGI), 2022. <https://gml.noaa.gov/aggi/aggi.html> (diakses 13 Mei 2023).
- Aphane, M. E., Doucet, F. J., Kruger, R. A. Petrik, L., Merwe, E. M. (2020). *Preparation of sodium silicate solutions and silica nanoparticles from south african coal fly ash. Waste Biomass Valor*, 11, 4403–441.
- Behera, S. K., Chakraborty, S., Meikap, B. C. (2017). *Chemical demineralization of high ash indian coal by using alkali and acid solutions. Fuel*, 196, 102–109.
- Behera, S. K., Chakraborty, S., Meikap, B. C. (2018). *Demineralization mechanism and influence of parameters on high ash indian coal by chemical leaching of acid and alkali solution. Int J Coal Sci Technol*, 5, 142–155.
- Behera Behera, S. K., Kumari, U. Meikap, B. C. (2018). *A review of chemical leaching of coal by acid and alkali solution. Journal of Mining and Metallurgy*, 54 A (1), 1–24.
- Ciu, L. Guo, Y., Wang, X., Du, Z., Cheng F. (2015). *Dissolution kinetics of aluminum and iron from coal mining waste by hydrochloric acid. Chin J Chem Eng*, 23(3), 590–596.
- Couch, R. G. (2002). *Coal upgrading to reduce CO₂ emissions. International Energy Agency Clean Coal Centre*, 1–23.
- Dash, P. S. Lingam, R. K., Kumar, S. S., Suresh, A., Banerjee P. K., Ganguly, S. (2015a). *Effect of elevated temperature and pressure on the leaching characteristics of indian coals. Fuel*, 140, 302–308.
- Dash, P. S. Sriramoju S. K., Kargupta, K., Banerjee, P. K., Ganguly, S. (2015b). *Characterization of chemical beneficiated indian coals. Int J Coal Prep Util.*, 35(5), 257–272.
- Dlouhý, T. (2010). *Low-rank coal properties, upgrading and utilization for improving fuel flexibility of advanced power plants in advanced power plant materials, design and technology. Woodhead Publishing Limited*, 291–311.
- Faraji, F., Alizadeh, A., Rashchi, F. & Mostouf, N. (2020). *Kinetics of leaching: a review. Rev Chem Eng*, 38(2), 113–148.
- Feng, Q., Wen, S., Wang, Y., Zhao, W., Deng, J. (2015). *Investigation of leaching kinetics of cerussite in sodium hydroxide solutions. Physicochem. Probl. Miner. Process.* 51(2), 491–500.
- Gulen, J. Doymaz, I., Piskin, S., Toprak S. (2005) *Removal of mineral matter from silopi-harpur asphaltite by various acid treatment. Energy Source Part a Recov Util Environ Effects*, 27(15), 1457–1464.
- Hanum, F. F., Rahayu, A., Hapsauqi I. (2022). *The comparison effects of naoh and koh as solvents for silica extraction from two different coal fly ashes. Indo. J. Chem. Res.*, 10(1), 27–31.
- Katalambula, H. and Gupta, R. (2009). *Canada low-grade coals: a review of some prospective upgrading technologies. Journal Energy & Fuel*, 23, 3392–3405.
- Lin, M., Liu Y. Y., Lei, S.-M., Pei, Z.-Y., Li, B. (2018). *High-efficiency extraction of Al from coal-series kaolinite and its kinetics by calcination and pressure acid leaching. Applied Clay Science*, 161, 215–224.
- Levenspiel. (1999) *Chemical reaction engineering – 3rd edition*. New York: John Wiley & Sons, 569–571.
- Ma, X., Zhang, M., Min, F. (2014). *Study of enhanced low-quality coal oxidative desulphurization and deashing by using HNO₃ and microwave pretreatment. Environ Technol*, 35, 36–41.



- Matthew Balhoff. (2022). Chapter 7 - Component transport in porous media. In: *Developments in Petroleum Science* (75). Amsterdam: Elsevier, P. P. Pages 175-200,
- Meshram, P. Purohit, B. K., Sinha, M. K., Sahu, S. K., Pandey, B. D. (2015). *Demineralization of low grade coal – A review*, 41, 745-761.
- Milton Ohring. (1995). *Kinetics of mass transport and phase transformations*. In: *Engineering Materials Science*. Academic Press, 249-297,
- Mukherjee, S. and Borthakur, P. C. (2001). *Chemical demineralization/desulphurization of high sulphur coal using sodium hydroxide and acid solutions*. *Fuel*, 80(14), 2037–2040.
- Osman, H., Jangam, S., Lease, J. D., Mujumdar, A. (2011). *Drying of low-rank coal (lrc)-a review of recent patents and innovations, drying technology*. *An International Journal*, 29(15), 1763-1783.
- PT Seluma Prima Coal. *Coal Analysis*, 2019. <https://selumaprima.com/coal-analysis/> (diakses 10 Juli 2023).
- Ryberg, M. W., Owsianiak, M., Laurent, A., Hauschild, M. Z. (2015). *Power generation from chemically cleaned coals: do environmental benefits of firing cleaner coal outweigh environmental burden of cleaning?*. *Energy Environ Sci*, 8, 2435–2447.
- Sriramoju, S. K., Dash, P. S., Suresh, A., Ray, T. (2021). *Integrated process for coal chemical demineralization and spent caustic regeneration – A pilot scale study*. *Journal of Cleaner Production*, 327, 1-12.
- Waugh, A. B. and Bowling, K. M. (1984). *Removal of mineral matter from bituminous coals by aqueous chemical leaching*. *Fuel Process Technol*, 9(3), 217.
- Wu, Z., and Steel, K. M. (2007). *Demineralization of a UK bituminous coal using HF and ferric ions*. *Fuel*, 86, 2194-2200.
- Xing, W. D., Ahn, B. D., Le, M. S. (2017). *Treatment of Black Dross with Water and NaOH Solution*. *J. of Korean Inst. of Resources Recycling*, 26(3), 53-60.