

REFERENCES

- Ahmaruzzaman, M., "A review on the utilization of fly ash," *Progress in Energy and Combustion Science*, 36(3) (2010) 327-363
- Akcil, A., and S. Koldas, "Acid Mine Drainage (AMD): causes, treatment and case studies," *Journal of Cleaner Production*, 14(12-13) (2006) 1139-1145
- Behera, B., and M. K. Mishra., "Microstructure and leaching characteristics of flyash – Mine Overburden – Lime Mixture," *International Conference on chemical, Civil and Environmental Engineering*, Dubai (2012)
- Behera, P. K., K. Sarkar, A. K. Singh, A. K. Verma, and T. N. Singh, "Dump slope stability analysis – A case study," *Journal of the Geological Society of India*, 88(6) (2016) 725–735
- BIS, "Drinking water specifications," 2nd revision. *Bureau of Indian Standards (IS 10500: 2012)*, New Delhi (2012)
- Box G. F. P., W. G. Hunter, and J. S. Hunter, "Statistics for experiments. An introduction to design data analysis and model building," *John Wiley & Sons*, (1978) 653 pages ISBN: 978-0471093152
- Brady, K. B. C., W. B. White, R. J. Hornberger, B. E. Scheetz, and C. M. Loop, "Refinement of ADT1-WP2 standard weathering procedures and evaluation of particles size and surface area affects upon leaching rates: part 2: practical and theoretical aspects of leaching kinetics," *Proceedings of National meeting American Society of Mining & Reclamation and the 25th West Virginia Surface mine drainage task force*. Lexington, by: American Society of Mining and Reclamation, (2004) 174-200
- CEA (Central Electricity Authority), "Report on flyash generation at coal and lignite based thermal power station and its utilization in the country in year 2017-18," *Central Electricity Authority*, New Delhi (2018)
- Chakravarty, R., S. Jayantu, and D. P. Tripathi, "Study of stability of overburden dumps mixed with flyash in an opencast coal mine," B. Tech Thesis, *National Institute of Technology Rourkela*, India, (2013) 69 pages
- Chattopadhyay, G. C., "Issues in utilization of ash by thermal power plants in the country," *Journal of Government Audit and Accounts*, 3 (2015) 1-6
- Chen, C., and M. Baker, "Engineering properties of coal mine refuse, stability in coal mining," *Proceedings of the 1st International Symposium on Stability in Coal Mining*, Miller Freeman Publication, San Francisco, (1978) 328-349
- Deb, T., and S. K. Pal, "Effect of fly ash on geotechnical properties of local soil-fly ash mixed samples," *International Journal of Research in Engineering and Technology*, 3(5) (2014) 507-516

- Dewangan, P. K., R. D. Lokhande, and A. K. Agarwal, "Fly ash mixing with mine OB dump: an environmental friendly, clean and green method of disposal," *International Journal of Science and Technology*, 3(2) (2017) 105-121
- Dhar, B. B., C. H. S. Rao, and A. Jamal, "Environmental impact analysis assessment due to mining," 2nd *Asia/Pacific Mining Conference and Exhibition*, March 14-17, 1990 Jakarta, Indonesia, (1990)
- Dhar, B. B., S. Ratan, and A. Jamal, "Rocks as a neutralizer in acid mine drainage," *Proceedings of National Seminar on Environmental Pollution and Control in Mining, Coal and Mineral Based Industries*, IIT, Kharagpur, India, Feb. 13-15, 1987, (1987) 276-280
- Dubey, K., "Socio economic impact study of mining and mining polices on the livelihoods of local population in the Vindhyan Region of Uttar Pradesh," *NITI Aayog*, New Delhi, (2017) 152 pages
- Grice, T. "Underground Mining with Backfill," *The 2nd Annual summit-mine tailings disposal system*, Brisbane, 24-25 November 1998, (1998) 1-14
- Grube, W. E., R. M. Smith, R. N. Singh, and A. A. Sobek, "Characterization of coal overburden materials and mine soils in advance of surface mining," Editors J. A. Kittrick et al., *Proceedings of acid sulfate weathering*, Spec. Publ. 10, SSSA, Madison, WJ, (1973) 169-191
- Gupta, A., A. Vats, B. Kumari, and B. Mishra., "XRF Studies for chemical composition and molecular formula of Jharkhand Bentonite," *IOSR Journal of Applied Chemistry*, 4(4) (2013) 42-46
- Gupta, A. K., and B. Paul, "Augmenting the stability of OB dump by using fly ash: A geotechnical approach to sustainably manage OB dump at Jharia Coalfield, India," *Current World Environment*, 11(1) (2016) 204-211
- Gutierrez, B., C. Pazos, and J. Coca, "Characterization and leaching of coal fly ash," *Waste management & research*, 11(4) (1993) 279-286
- Heasman, L., H. A. van der Sloot, Ph. Quevauviller, "Harmonization of leaching/extraction Tests," *Elsevier Science*, (1997) ISBN: 978-0080533308
- IEA (International Energy Agency), "Medium-term coal market report 2012 factsheet," assessed at <https://www.iea.org/newsroom/news/2012/> (2019)
- Jamal, A., A. Bhowmick, K. K. Gupta, and B. Prasad, "Use of flyash for management of acid water in coal mines - A case study," *EWMMI, IATES*, Bhubaneswar (2008)
- Jamal, A., A. K. Ranjan, A. K. Yadav, and S. Shirin, "Prediction of mine drainage quality in a proposed coal mine," *The Indian Mining and Engineering Journal*, 54(01) (2015) 15-19
- Jamal, A., S. Shirin, A. K. Yadav, S. Sidharth, "Waste production in coal mines and scope of utilization of marking value added production – A Case Study," *Proceedings of the Recent Practices & Innovations in Mining Industry* 19-20th February, 2016 Organized by Department of Mining Engineering, NIT, Raipur, (2016) 294-299

- Jamal, A., B. B. Dhar, and S. Ratan, "Acid mine drainage control in an opencast coal mine," *Mine Water and the Environment*, 10(1) (1991) 1-16
- Jamal, A., S. Shirin, and P. Ranjan, "Overburden mixed disposal in voids of opencast coal mines," *The Indian Mining Engineering Journal*, 56(5) (2015) 26-33
- Johnson B., and K. C. Carroll, "Waste rock backfill of open pits: design, optimisation, and modelling considerations," *Proceedings of mine closure*, Santiago, Chile (2007)
- Karfakis, M. G., C. H. Bowman, and E. Topuz, "Characterization of coal-mine refuse as backfilling material," *Geotechnical & Geological Engineering*, 14(2) (1996) 129-150
- Krishnan, S. S., "Fly ash utilisation: A key policy pathway for low carbon inclusive growth," *Proceedings of 2nd annual International summit of fly ash utilisation* during Jan 17-18, 2013, NDCC II Convention Centre, NDMC Complex, New Delhi, India (2013)
- Kurumbein W. C., and F. A. Graybill "An introduction to statistical models in geology," *McGraw-Hill, New York*, (1965)
- Kusuma, G. J., K. Hiroto, H. Shimada, T. Sasaoka, K. Matsui, R. S. Gautama, and B. Sulistianto, "Leachate characteristic of sulphidic coal mine waste rock due to various water pouring interval," *12th International Congress on Rock Mechanics of the International Society for Rock Mechanics*, ISRM 2011 - Beijing, China (2011)
- Li, M., J. Zhang, Y. Huang, and N. Zhou, "Effects of particle size of crushed gangue backfill materials on surface subsidence and its application under buildings," *Environmental Earth Sciences*, 76(17) (2017) 603
- Loubser, M., and S. Verryin, "Combining XRF and XRD analysis and sample preparation to solve mineralogical problems," *South African Journal of Geology*, 111(2-3) (2008) 229-238
- Maiti, S. K., "Handbook of methods in environmental studies, Volume 1: Water and Wastewater Analysis," 2nd edition, *ABD Publishers Jaipur* (India), (2004) ISBN: 978-8185773407
- Misra R., "Ecology workbook," *Oxford & IBH Publishing Company*, (1968) 242 pages
- MOP (Ministry of Power), "Annual report," *Central electricity authority* (CEA). New Delhi, retrieved from <http://cea.nic.in> (2018)
- Murty, D. S. R., and D. L. N. Rao, "Fly ash and its use in cementitious material in civil engineering," *Proceedings of the National Seminar on Fly Ash Utilisation*, NML Jamshedpur, India, (1999) 69-73
- Nair G. A., A. I. Mohammad, and M. M. Fadiel, "Physico-chemical parameters and correlation coefficients of ground waters of North-East Libya," *Pollution Research*, 24(11) (2005) 1-6
- Nair G. A., J. A. Bohjuari, M. A. Al-Mariami, F. A. Attia, F. F. El-Toumi, "Groundwater quality of north-east Libya," *Journal of Environmental Biology*, 27(4) (2006) 695-700

- Neogi, B., A. K. Tiwari, A. K. Singh, and D. D. Pathak, "Evaluation of metal contamination and risk assessment to human health in a coal mine region of India: A case study of the North Karanpura coalfield," *Human and Ecological Risk Assessment*, 24(8) (2018) 2011-2023
- Obla, K. H., "Specifying fly ash in concrete," *National Ready Mix Concrete Association, USA Concrete InFocus*, 7(1) (2008) 60-66
- Page, A. L., A. A. Elseewi, and I. R. Straughan, "Physical and chemical properties of fly ash from coal-fired power plants with reference to environmental impacts," *Residue Reviews*, 71 (1979) 83-120
- Page, A. L., R. H. Miller, and D. R. Keeney, "Methods of soil analysis: Part 2 - Chemical and Microbiological Properties," 2nd edition, *American Society of Agronomy Inc., Soil Science Society of America Inc.*, (1982) 199-209
- Pearson, K., "Mathematical contributions to the theory of evolution.—III. Regression, heredity, and panmixia," *Philosophical Transactions of the Royal Society of London. Series A*, 187 (1896) 253-318
- Patil, S. L., J. N. Kale, and S. Suman, "Flyash concrete: a technical analysis for compressive strength," *International Journal of Advanced Engineering Research and Studies*, 2(1) (2012) 128-129
- Pendowski, J. J., "An assessment of laboratory leaching tests for predicting the impacts of fill material on ground water and surface water quality - a report to the legislature," *Prepared by Science Applications International Corporation Washington State Department of General Administration, Toxics Cleanup Program Olympia, Washington 98504-7600* (2003)
- Pradhan S. P., V. Vishal, T. N. Singh, and V. K. Singh, "Optimisation of dump slope geometry vis-à-vis flyash utilisation using numerical simulation," *American Journal of Mining and Metallurgy*, 2(1) (2014) 1-7
- Prasad, R. R., and D. N. Kumar, "Effect of fly ash on CBR results of granular sub base subjected to modified compaction," *International Journal of Engineering Trends and Technology*, 29(1) (2015) 35-40
- Rai, A. K., B. Paul, and G. Singh, "A study on physico chemical properties of overburden dump materials from selected coal mining areas of Jharia coalfields, Jharkhand, India," *International Journal of Environmental Sciences*, 1(6) (2011) 1350-1360
- Ranjan, G., and A. S. R. Rao, "Basic and applied soil mechanics," 3rd edition, *New Age International Private Limited*, ISBN: 978-8122440393 (2016)
- Ratna, P., and K. N. Durga, "CBR and strength aspects of fly ash-granular soil mixtures," *International Journal of Engineering Research and General Science*, 3(4) (2015) 943-953
- Sharma, G., S. K. Mehla, T. Bhatnagar, A. Bajaj, "Possible use of fly ash in ceramic industries: an innovative method to reduce environmental pollution," *International Conference on Ceramics, Bikaner, India, International Journal of Modern Physics: Conference Series*, 22 (2013) 99-102

- Sharma, L.K., N. N. Sirdesai, K. M. Sharma, and T. N. Singh, "Experimental study to examine the independent roles of lime and cement on the stabilization of a mountain soil: A comparative study," *Applied Clay Science*, 152 (2018) 183-195
- Shetty, M. S., "Concrete technology: Theory and practice," *S. Chand & Company*, New Delhi, India (2005)
- Shirin, S., and A. Jamal, "Neutralization of acidic mine water using flyash and overburden," *Rasayan Journal of Chemistry*, 11(1) (2018a) 74-79
- Shirin, S., and A. Jamal, "Environmental impact of mine water, utilization and management in Indian mines," *Rasayan Journal of Chemistry*, 11(2) (2018b) 531-536
- Shirin, S., A. Jamal, P. Ranjan, and A. K. Yadav, "Study on assessment of slope stability and mixed disposal of overburden in voids of Singrauli Coalfield," *Environmental Quality Management*, 28(3) (2019) 131-139
- Shrivastava, V. S., and P. R. Patil, "Tapti river water pollution by industrial wastes: a statistical approach," *Nature Environment and Pollution Technology*, 1(3) (2002) 279-283
- Siddharth, S., A. Jamal, B. B Dhar, and R. Shukla, "Acid-base accounting: a geochemical tool for management of acid drainage in coal mines," *Mine Water and the Environment*, 21(3) (2002) 106-110
- Singh, A.K., M. K. Mahato, B. Neogi, B. K. Tewary, and A. Sinha, "Environmental geochemistry and quality assessment of mine water of Jharia coalfield, India," *Environmental Earth Sciences*, 65(1) (2011) 49-65
- Singh, G., "Impact of coal mining on mine water quality," *International journal of mine water*, 7(3) (1998) 49-59
- Singh, G., and D. K. Sinha, "The problem of acid mine drainage: its occurrence and effects," *Proceedings of Environmental Management of Mining Operations edited by B. B. Dhar, Ashish Publications*, (1990) 156-167
- Singh, R. N., A. S. Atkins, and A. G. Pathan, "Determination of ground water quality associated with lignite mining in arid climate," *Journal of Mining and Environmental*, 10(1) (2010) 65-78
- Skousen, J., J. Renton, H. Brown, P. Evans, B. Leavitt, K. Brady, L. Cohen, and P. Ziemkiewicz, "Neutralization potential of overburden samples containing siderite," *Journal of Environmental Quality*, 26(3) (1997) 673-681
- Suciu, I., C. Cosma, M. Todicia, S. D. Bolboacua, and L. Jantschi, "Analysis of soil heavy metal pollution and pattern in central Transylvania," *International Journal of Molecular Sciences*, 9(4) (2008) 434-453
- Wayment, W. R., "Backfilling with tailings-a new approach," *Mining with backfill- 12th Canadian rock mechanics symposium, Canadian institute of mining and metallurgy, Quebec*, 19 (1978) 111-116
- White III, W. W., K. A. Lapakko, and R. L. Cox, "Static-Test Methods Most Commonly Used to Predict Acid-Mine Drainage: Practical Guidelines for Use and

Interpretation,” Editors G. S. Plumlee, and M. J. Logsdon. *Reviews in Economic Geology 6A, Society of Economic Geologists, Littleton, CO*, (1997) 325-338 (Chapter 15)

Yaseen, S., A. Pal, S. Singh, and I. Y. Dar, “A study of physico-chemical characteristics of overburden dump materials from selected coal mining areas of Raniganj coal fields, Jharkhand, India,” *Global Journal of Science Frontier Research Environment & Earth Sciences* 12(1) (2012) Version 1.0

Zeng X., and T. C. Rasmussen, “Multivariate statistical characterization of water quality in Lake Lanier, Georgia, USA,” *Journal of Environmental Quality*, 34(6) (2005) 1980-1991

