

## SELECTED RESEARCH PUBLICATIONS

- 1) **Makokha, A.B.**, Moys, H.M., Bwalya, M.M., (2011), Modeling the RTD of an industrial overflow ball mill as a function of load volume and slurry concentration, *Minerals Engineering*, 24 (3-4) 335-340.
- 2) **Makokha, A.B.**, Moys, H.M., (2011), Characterizing slurry hydrodynamic transport in a large overflow tubular ball mill by an improved mixing cell model based on tracer response data, *Powder Technology*, 211 (2-3) 207-214.
- 3) **Makokha, A.B.**, Moys, H.M., Bwalya, M.M., (2011). Application of gamma emission imaging in mineral processing industry: Case study of slurry transport in a wet laboratory ball mill, *Measurement Science & Technology*, 22 (4) 045706 (10pp)
- 4) **Makokha, A. B** and Moys H. M (2006). Towards optimising ball-milling capacity: Effect of lifter design, *Minerals Engineering*, 19 (14) 1439 - 1445.
- 5) **Makokha, A.B.**, Moys H.M., Cousta, C and Muumbo, A., (2009), Steady state inferential modelling of temperature and pressure in an air-swept coal pulverizing ball mill, *Powder Technology*, 192 (3) 260 – 267.
- 6) **Makokha, A. B** and Moys H. M (2007). Effect of cone-lifters on the discharge capacity of the mill product: case study of a dry laboratory scale air-swept ball mill, *Minerals Engineering*, 20 (2) 124 -131.
- 7) **Makokha, A. B**, Moys H. M, Bwalya M. M and Kiangi K (2007), A new approach to optimising the life and performance of worn liners in ball mills: Experimental study and DEM simulation, *Int. Journal of Mineral Processing*, 84: 221-227.
- 8) **Makokha, A.B.**, Moys, M.H., (2012), Multivariate approach to on-line prediction of in-mill slurry density and ball load volume based on direct ball and slurry sensor data, *Minerals Engineering*, 26: 13-23.
- 9) **Makokha, A. B.**, Moys. H. M., Muumbo, A. M., Kiprono, J. R., (2012). Optimization of in-mill ball loading and slurry solids concentration in grinding of UG-2 ores: A statistical experimental design approach, *Minerals Engineering*, **39**: 149-155.
- 10) Nyandiga,G.O., Siagi,Z.O., **Makokha, A.B.**, (2014), Modeling of a Still Reactor Banana Peels Fermentation: Waste to Energy Approach, *Journal of Research in Engineering*, 1(2)1-10.
- 11) S.M. Talai, Z.O. Siagi, S.K. Kimutai, S.S. Simiyu, W.T. Ngigi and **A.B. Makokha**, (2014), Comparative Energy Generation of Irish-potato, Tomato and Pineapple ZN/CU Vegetative Batteries, *Research Journal of Applied Sciences, Engineering and Technology* 8(1): 9-19.
- 12) D. S. Madara, S. S. Namango, **A B. Makokha** and E. Ataro, (2014), Acceptance, Operational Challenges and Conceptual Optimization of Biogas System in Embu Prison, *Journal of Energy Technologies and Policy*, 4(12)
- 13) **A. B. Makokha**, D. S. Madara, S. S. Namago, E. Ataro (2014), Effect of Slurry Solids Concentration and Ball Loading on Mill Residence Time Distribution, *International Journal of Mining Engineering and Mineral Processing*, 3(2): 21-27.
- 14) S. S. Namago, D. S. Madara, **A. B. Makokha**, E. Ataro, (2015), A Model for Testing Compressive and Flexural Strength of Sisal Fibre Reinforced Compressed Earth Blocks in the Absence of Laboratory Facilities, *Int. J. for Innovation Education and Research* 3(3) 132-145.
- 15) E. Ataro, D. S. Madara, S. S. Namango, **A B. Makokha** and H. Hillmer, (2015), Design of a Vertical Cavity Optical Micro-Electromechanical Filter, *International Journal of Innovative Research in Computer and Communication Engineering*, 3(4) 3081-3086.

- 16) J. J. Kiptarus, A. M. Muumbo, **A. B. Makokha**, S. K. Kimutai, (2015), Characterization of Selected Mineral Ores in the Eastern Zone of Kenya: Case Study of Mwingi North Constituency in Kitui County, *Int. J. of Mining Engineering and Mineral Processing*, 4(1): 8-17.
- 17) **Kononden, K. C., Makokha, A. B., Sitters, W. M. C.**, (2018), Single arm, centrifugal, water turbine for low head and low flow application: Part 1- theory and design, *Energy & Power* 8(2) 51 – 55.
- 18) **Kononden, K. C., Makokha, A. B., Sitters, W. M. C.**, (2018), Single arm, centrifugal, water turbine for low head and low flow application: Part 2- Performance evaluation, *Energy & Power* 8(2) 56 – 60.

## CONFERENCE PROCEEDINGS

- 19) **Makokha, A. B.**, Chikerema, P and Kiprono, R. J., A laboratory investigation of dry coal beneficiation in an air fluidized bed: Effects of particle size, shape and density, Proc. 13<sup>th</sup> Int. Mech. Eng. Conf., AICAD, Nairobi, Kenya, May 3-4, 2012, pg. 257-262.
- 20) J. J. Kiptarus, A. M. Muumbo, **A. B. Makokha**, Analysis of raw iron ores in Kenya: Case study of Mwingi North constituency in Kitui County, Proc. 15<sup>th</sup> Int. Mech. Eng. Conf., AICAD, Nairobi, Kenya, May 7-9, 2014, pg. 296-299.
- 21) G. O. Nyandiga, Z. O. Siagi, **A. B. Makokha**, Optimization of Anaerobic Fermentation Conditions for Bioethanol Production from Banana Peels using Yeast in a Still Reactor, Proc. 15<sup>th</sup> Int. Mech. Eng. Conf., AICAD, Nairobi, Kenya, May 7-9, 2014, pg. 120-123.
- 22) E.O Were, **A. B. Makokha**, C. Nzila, Experimental Investigation of the Thermal Performance of Kenya Defence Forces Mobile Diesel Cooker, Proc. 18<sup>th</sup> Int. Mech. Eng. Conf., AICAD, Nairobi, Kenya, May 16- 19, 2017, pg. 210-214.