Dr. Izhar Mithal Jiskani

Assistant Professor

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Profile

Summary

Dr. Izhar Mithal Jiskani is an Assistant Professor at NBC. He is carrying out scientific research on sustainable mining. He is member of Editorial Boards of several international journals.

Academic Background

- **Doctor of Engineering (Mining Engineering)**
  Doctoral
  China University of Mining and Technology (CUMT), Xuzhou, China
  10/2017 – 07/2021

- **Master of Engineering (Mining Engineering)**
  Master's
  Mehran University of Engineering and Technology (MUET), Jamshoro, Pakistan
  12/2012 – 10/2016

- **Bachelor of Engineering (Mining Engineering)**
  Bachelor's
  Mehran University of Engineering and Technology (MUET), Jamshoro, Pakistan
  02/2009 – 12/2012

Honours and Awards

- **PhD Scholarship**

  Chinese Government Scholarship (2017-2021)

Research

Dr. Izhar Mithal Jiskani does research on sustainable mining and his main research interests are related to green and climate-smart mining, mine safety, and mine evaluation systems.

See more at: https://www.researchgate.net/profile/Izhar-Mithal-Jiskani

Publications

Impact Factor Journals

1. **IM Jiskani**, Q Cai, W Zhou, X Lu & SAA Shah. An integrated fuzzy decision support system for analyzing challenges and pathways to promote green and climate smart mining. Expert Systems with Applications, 2021, 188: 116062.

2. **IM Jiskani**, Q Cai, W Zhou & SAA Shah. Green and climate-smart mining: A framework to analyze open-pit mines for cleaner mineral production. Resources Policy, 2021, 71: 102007.

3. **IM Jiskani**, H Shuai, AU Rehman, NM Shahani, M Tariq & MA Brohi. An integrated entropy weight and grey clustering method–based evaluation to improve safety in mines. Mining, Metallurgy & Exploration, 2021.

4. Z Wang, W Zhou, **IM Jiskani**, X Ding & H Luo. Dust pollution in cold region Surface Mines and its prevention and control. Environmental Pollution, 2021, 292: 118293. (Equal contribution)

5. H Luo, W Zhou, **IM Jiskani** & Z Wang. Analyzing characteristics of particulate matter pollution in open-pit coal mines: implications for green mining. Energies, 2021, 14(9), 2680. Corresponding author)

6. ZM Wang, W Zhou, **IM Jiskani**, XH Ding, ZC Liu, YZ Qiao & B Luan. Dust reduction method based on water infusion blasting in open-pit mines: a step toward green mining. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2021. (Corresponding author)

7. G Lin, M Li, Y Chen, J Zhang, **IM Jiskani**, DV Doan & L Xu. Dynamic tensile mechanical properties and fracture characteristics of water-saturated sandstone under the freezing effect. International Journal of Geomechanics, 2021, 21(5): 04021044.

8. L Cao, P Zhang, J Zhang, G Lin, **IM Jiskani**, Z Chen, Z Wang & M Li. Experimental study of hysteresis characteristics for water-sediment mixture seepage in rock fractures. Geofluids, 2021: 6692388.

9. T Guo, W Zhou, Z Li, C Zhang, Q Cai, Y Tian, H Qin, F Liu, **IM Jiskani**, D Zhang. Optimization of land saving and loss reducing and slope stability variation patterns in open-pit mine. Geofluids, 2021: 6620235.

10. S Han, **IM Jiskani**, Y Li, Z Liu & J Yin. Deteriorated and Dislocated Multiple Organizational Relationships: An Investigation of Chinese Rock Burst Prone Coal Mines. *Shock and Vibration*, 2021:8434222. (Corresponding author)

11. M Ali, E Wang, Z Li, H Jia, D Li, **IM Jiskani** & B Ullah. Study on Acoustic Emission Characteristics and Mechanical Behavior of Water-Saturated Coal. Geofluids, 2021: 5247988.

12. **IM Jiskani**, Q Cai, W Zhou & X Lu. Assessment of risks impeding sustainable mining in Pakistan using fuzzy synthetic evaluation. Resources Policy, 2020, 69: 101820.

13. **IM Jiskani**, SAA Shah, Q Cai, W Zhou & X Lu. A multi-criteria based SWOT analysis of sustainable planning for mining and mineral industry in Pakistan. Arabian Journal of Geosciences, 2020, 13: 1108.

14. **IM Jiskani**, Q Cai, W Zhou, Z Chang, SR Chalgri, E Manda & X Lu. Distinctive model of mine safety for sustainable mining in Pakistan. Mining, Metallurgy & Exploration, 2020, 37(4): 1023-1037.

15. J Chen, **IM Jiskani**, C Jinliang & H Yan. Evaluation and future framework of green mine construction in China based on the DPSIR model. Sustainable Environment Research, 2020, 30(1): 13. Corresponding author)

16. Y Zhou, W Zhou, X Lu, **IM Jiskani**, Q Cai, P Liu & L Li. Evaluation index system of green surface mining in China. Mining, Metallurgy & Exploration, 2020, 37(4): 1023-1037.

17. NM Shahani, MJ Sajid, X Zheng, MA Brohi, **IM Jiskani**, F Ul Hassan & AR Qureshi. Statistical analysis of fatalities in underground coal mines in Pakistan. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2020.

18. H Zheng, Q Cai, W Zhou, X Lu, C Qi, **IM Jiskani** & Y Zhang. Creep behaviours of argillaceous sandstone: an experimental and modelling study. Applied Sciences, 2020, 10(1): 7602.

19. **IM Jiskani**, B Ullah, KS Shah, S Bacha, NM Shahani, M Ali, A Maqbool & AR Qureshi. Overcoming mine safety crisis in Pakistan: An appraisal. Process Safety Progress, 2019, 38(4): e12041.

20. Z Chang, Q Cai, W Zhou, **IM Jiskani** & R Wang. Effects of the Loading and Unloading Conditions on Crack Propagation in High Composite Slope of Deep Open-Pit Mine. Advances in Civil Engineering, 2019, 2019.

Non-Impact Factor Journals

21. YJ Barvor, S Bacha, Q Cai, CS Zhao, N Mohammad, **IM Jiskani** & NM Khan. Research on the coupling effect of the composite slope geometrical parameters. Mining of Mineral Deposits, 2021, 15(2): 35-46.

22. NM Shahani, MJ Sajid, **IM Jiskani**, B Ullah & AR Qureshi. Comparative analysis of coal miner's fatalities by fuzzy logic. Journal of Mining and Environment, 2021, 12(1): 77-87.

23. **IM Jiskani**, SR Chalgri, S Memon, NM Shahani, AR Qureshi & ZA Jarwar. Prospective study on safety climate of surface mining in Pakistan. Journal of Sustainable Mining, 2020, 19(1): 11-18.

24. **IM Jiskani**, S Han, NM Shahani, M Ali, I Dianat & SR Chalgri. Evaluation of physical and environmental working conditions of underground coal mines within the framework of ergonomics. International Journal of Mining and Mineral Engineering, 2020, 11(3): 240-256.

25. **IM Jiskani**, JMNd Silva, SR Chalgri, P Behrani, X Lu & E Manda. Mine health and safety: influence of psychosocial factors on musculoskeletal disorders among miners in Pakistan. International Journal of Mining and Mineral Engineering, 2020, 11(2): 152-167.

26. KS Shah, **IM Jiskani,** NM Shahani, HU Rehman, NM Khan & S Hussain. Analysis and forecast of mining accidents in Pakistan. Journal of Mining and Environment, 2020, 11(4):

967-976.

27. Y Zhou, W Zhou, X Lu, **IM Jiskani**, Q Cai, P Liu & L Li. Technical paper: Evaluation Index System of Green Surface Mining in China. Mining Engineering, 2020, 72(10).

28. **IM Jiskani** & FI Siddiqui. Fault orientation modeling of Sonda- Jherruck coalfield, Pakistan. Journal of Mining and Environment, 2019, 10(2): 305-313.

29. N Shahani, M Sajid, X Zheng, **IM Jiskani**, M Brohi, M Ali, B Ullah & A Qureshi. Fault tree analysis and prevention strategies for gas explosion in underground coal mines of Pakistan. Mining of Mineral Deposits, 2019, 13(4): 21-128.

30. **IM Jiskani**, FI Siddiqui & AG Pathan. Integrated 3D geological modeling of Sonda-Jherruck coal field, Pakistan. Journal of Sustainable Mining, 2018, 17(3): 111-119.

Conferences

31. E Manda, **IM Jiskani**, J Hatilima, J Mvula, PRK Chileshe, RB Kaunda, VM Bowa & W Zhou. 2021. Smart mining through the application of unmanned aerial vehicles (UAV) and internet of things (IoT). 2021 Engineering Institution of Zambia Annual Symposium, Livingstone, Zambia.

32. **IM Jiskani**, Q Cai & W Zhou. 2020. Assessment of risks impeding sustainable mining using fuzzy synthetic evaluation. XVI International Forum-Contest of Students and Young Researchers "Topical Issues of Rational Use of Natural Resources". Saint-Petersburg Mining University, Russia, p. 287.

33. S Bacha, B Huang, S Ahmad, A Javed, AR Qureshi, **IM Jiskani**, NM Shahani & M Ali. 2019. Preventive measures of lungs diseases in coal mine workers caused by coal dust (Case studies of Baluchistan and KPK Provinces of Pakistan). International Conference on Energy, Resources, Environment and Sustainable Development, Xuzhou, China.

34. **IM Jiskani**, Z Wei, SR Chalgri, C Qingxiang, P Behrani & R Aziz. 2018. Prevalence of musculoskeletal disorders and assessment of workplace factors: a case of coal mine in Pakistan. Thirty-Fifth Annual International Pittsburgh Coal Conference, Xuzhou, China.

35. I Sahito, **IM Jiskani**, S Memon & M Pinjaro. 2015. Physical preparation of low-grade Lakhra coal for sustainable energy future. First National Conference on Metallurgy and Materials, Jamshoro, Pakistan.

36. **IM Jiskani**, FI Siddiqui, S Memon & MH Jokhio. 2015. Coal blending for extended utilization of indigenous coal resources of Pakistan. First National Conference on Metallurgy and Materials, Jamshoro, Pakistan.

37. **IM Jiskani**, FI Siddiqui, W Qazi & MY Behan. 2013. Blending of local and imported coal for cement industries. First International Coal Conference, Jamshoro, Pakistan.

Experience

- **Lecturer** (Mining Engineering)
  Balochistan University of Information Technology, Engineering and Management Sciences (BUITEMS), Pakistan
  2016 – 2017

- **Mining Engineer**
  Muadinoon Mining Company, Kingdom of Saudi Arabia
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