List of Publications of Dr. P. S. Paul

(Till 08.02.2025)

Citation indices	All	Since 2019
Citations	**1323**	**717**
h-index	**18**	**16**
i10-index	**25**	**20**

The paper with highest citation: 346 (Safety Science; presently JCR WoS Q1 Journal)

Papers Published in International Journal

1. Mukesh Vikram, Bhattacharjee, R. M., and **Paul, P. S.** (2024). "Determination of Spontaneous Combustion Propensity and Ignition Time of Indian Coal using Adiabatic Oxidation Method", **Fuel,** Elsevier Science, https://doi.org/10.1016/j.fuel.2025.134569 **[SCIE WoS JCR Q1 Journal so far 2023 onward]** **Current Impact Factor: 6.70**

2. Sakinala, V. and Paul, P. S. (2025) "Estimation of Aerobic Fitness of Underground Coal Mine Workers and Development of a Predictive Equation to Determine their VO2 Max", **International Journal of Occupational Safety and Ergonomics**, Taylor & Fransis, https://doi.org/10.1080/10803548.2025.2454129 **[SCI WoS JCR Q3 Journal]** **Current Impact Factor: 1.6**

3. Sakinala, V., Paul, P. S. & Fissha, Y. (2024). "Promoting safety of underground machinery operators through participatory ergonomics and fuzzy model analysis to foster sustainable mining practices", **Scientific Reports 14**, 16319, **Nature Portfolio**, **available online July 15, 2024,** (2024). https://doi.org/10.1038/s41598-024-67375-1 **[SCI WoS JCR Q1 Journal so far 2023 onward]** **Current Impact Factor: 3.5**

4. Sakinala, V., Paul, P. S. & Moparthi, J.R. (2024). "Assessment of HEMM Operators' Risk Exposure due to Whole-Body Vibration in Underground Metalliferous Mines Using Machine Learning Techniques", **Mining, Metallurgy & Exploration**. **available online June 17, 2024** https://doi.org/10.1007/s42461-024-01009-y, **[SCIE WoS JCR Q1 Journal so far 2022 onward]** **Current Impact Factor: 1.8**

5. Mukesh Vikram, Bhattacharjee, R. M., **Paul, P. S.** and Lingampally, V. S. (2024). "Determinants of prioritised influencing factors on coal spontaneous combustion propensity – A Fuzzy-Delphi-geometric mean analytic hierarchy process", **Fuel**, Elsevier Science, 356 (2024) 129541. pp.1-15, **available online August 21, 2023**. https://doi.org/10.1016/j.fuel.2023.129541 **[SCIE WoS JCR Q1 Journal so far 2022 onward]** **Current Impact Factor: 7.44**

6. Kumar, P. P., **Paul, P. S.**, and Manjunath Ananda, M. (2023). "Development of LoRa Communication System for Effective Transmission of Data from Underground Coal Mines", **Processes**, 11(6), pp.1691–1691, **Publish online 1st June 2023**. https://doi.org/10.3390/pr11061691. **[SCIE WoS JCR Q2 Journal so far 2022 onward]** **Current Impact Factor: 3.50**

7. Chandrakar, S, **Paul, P. S.** and Sawmliana, S. (2023). "Long-Hole Raise Blasting in a Single Shot: Assessment of Void Ratio and Delay Time based on Experimental Tests" will be published in **Engineering Structures**", **Engineering Structure, Elsevier Science, Vol. 108,**

Article No. 103716, pp.1-12, Available online 16 November 2022. https://doi.org/10.1016/j.engstruct.2022.115272 **[SCIE WoS JCR Q1 Journal in 2022]**
Current Impact Factor: 5.582

8. Mishra, K., **Paul, P. S.**, Ghosh, C. N., Singh, P., Behera, S. K. and Mandal, P. K. (2022). "Predicting and Optimising the Strength of Cemented Paste Fills Through Bayesian Network Model", **Mining, Metallurgy & Exploration, Springer Publication,** Vol. **39**, Pg. 2095–2120, Available online 14 July 2022. https://doi.org/10.1007/s42461-022-00650-9, **[SCIE WoS JCR Q2 Journal in 2022]** **Current Impact Factor: 1.90**

9. Das A. J., **Paul P. S.**, Mandal P. K., Kumar, R. and Tewari S. (2021). "Investigation of Failure Mechanism of Inclined Coal Pillars: Numerical Modelling and Tensorial Statistical Analysis with Field Validations", **Rock Mechanics and Rock Engineering, Springer Vienna, Vol. 54**, pg. 3263–3289, Available online 17 April 2021. https://doi.org/10.1007/s00603-021-02456-5 **[SCIE WoS JCR Q1 Journal in 2021]**
Current Impact Factor:6.2

10. Chandrakar, S, **Paul, P. S.** and Sawmliana, S. (2020). "Influence of void ratio on "Blast Pull" for different confinement factors of development headings in underground metalliferous mines", **Tunnelling and Underground Space Technology, Elsevier Science, Vol. 108, Article No. 103716, pp.1-12, Available online 11 December 2020**.
https://doi.org/10.1016/j.tust.2020.103716 **[SCIE WoS JCR Q1 Journal in 2020]**
Current Impact Factor:6.9

11. Bhattacharjee, R. M., Dash, A. K. and **Paul, P. S.** (2019). "A Root Cause Failure Analysis of Coal Dust Explosion Disaster - Gaps and Lessons Learnt", **Engineering Failure Analysis**, **Elsevier Science, vol. 111, pg. 1-17, Available online 31 October 2019.** https://doi.org/10.1016/j.engfailanal.2019.104229 **[SCIE WoS JCR Q1 Journal in 2019]**
Current Impact Factor: 4.0

12. Raja, S., **Paul, P. S.**, and Mandal, P. K. (2019). **"**Evaluation of Bump-proneness of Underground Coal Mines by the Strain Energy Release Rate using Numerical Modelling". **DOI: 10.1007/s12517-019-4746-9**, **Arabian Journal of Geoscience, Springer,12 (18) 579, pg. 1-16,** Published online: 11 September 2019. https://doi.org/10.1007/s12517-019-4746-9 **[SCIE WoS JCR Q4 Journal in 2019]** **Impact Factor in 2020: 1.827**

13. Das A. J., Mandal P. K., **Paul P. S.**, Sinha R. K. and Tewari S. (2019). "Assessment of the strength of incline coal pillars through numerical modelling based on the ubiquitous joint model", **Rock Mechanics and Rock Engineering, Springer Vienna,** Vol. 52 (10), pg. 3691-3717, Published online: 2 May 2019. https://doi.org/10.1007/s00603-019-01826-4. **[SCIE WoS JCR Q1 Journal in 2019]** **Current Impact Factor:6.2**

14. Das A. J., Mandal P. K., **Paul P. S.** and Sinha R. K. (2019). "Generalised analytical solutions for the strength of the incline as well as the flat coal pillars". **Rock Mechanics and Rock Engineering, Springer (Vienna),** Vol. 52 (10), pg. 3921-3946, Published online 8 April 2019. https://doi.org/10.1007/ s00603-019-01788-7. **[SCIE WoS JCR Q1 Journal in 2019]**
Current Impact Factor: 6.2

15. Dash, A. K., Bhattacharjee, R. M. and **Paul, P. S.** (2016). "Lessons Learned from Indian Inundation Disasters: An Analysis of Case Studies", **International Journal of Disaster Risk Reduction**, **Elsevier Science, Vol. 20, pp. 93-102,** Available online 4 November 2016**.** https://doi.org/10.1016/j.ijdrr.2016.10.013 **[SCIE WoS JCR Q2 Journal in 2016]**
Current Impact Factor: 5.0

16. Mangal, Aveek and **Paul, P. S.** (2016). "Rock Mechanical Investigation of Strata Loading Characteristics to Assess Caving and Requirement of Support Resistance in A Mechanized Longwall Face", **International Journal of Mining Science and Technology (China), Elsevier Science,** Vol. 26, No. 6, pp. 1081-1087**.** **[Currently, SCI WoS JCR Q1 Journal]** **Current Impact Factor: 11.8**

17. Dash, A. K., Bhattacharjee, R. M. and **Paul, P. S.** (2015). "Gap Analysis of Accident Investigation Methodology in the Indian Mining Industry - an Application of Swiss Cheese Model and 5-Why Model", **IAMURE International Journal of Ecology and Conservation, Philippines,** Vol. 15, No. 1.

18. Dash, A. K., Bhattacharjee, R. M. and **Paul, P. S.** (2015). "Study and Analysis of Accidents Due to Wheeled Trackless Transportation Machinery in Indian Coal Mines – Identification of Gap in Current Investigation System", **Procedia Earth and Planetary Science, Elsevier Science, USA, vol. 11, pp. 539-547.** **[Scopus Index Journal]**

19. Dohare Y. S., Maity, Tanmoy, Das, P. S. and **Paul, P. S. (2015)**. "Wireless Communication & Environment Monitoring in Underground Coal Mines–Review", **IETE Technical Review, Taylor & Francis,** Vol. 32, No. 2, pp. 140-150, **Published online 08 Jan 2015**. https://doi.org/10.1080/02564602.2014.995142 **[SCIE WoS JCR Q2 Journal in 2015]** **Current Impact Factor:2.4**

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21. **Paul, P. S.** (2013). "Investigation of the Role of Personal Factors on Work Injury in Underground Mines Using Structural Equation Modelling", **International Journal of Mining Science and Technology (China), Elsevier Science,** Vol. 23, No. 6, pp. 815-819**. [Currently, SCIE WoS JCR Q1 Journal]** **Current Impact Factor: 11.8**

22. **Paul, P. S.** (2012). "Safety in Indian Coal Mines – Where Do We Go from Here" IAMURE **International Journal of Ecology and Conservation, Philippines,** Vol. 2, March, pp. 33-55**..** This paper has been presented by me in an **International Conference in Singapore** on 7-8 December, 2012.

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27. **Paul, P. S.** and Maiti, J. **(2005)**. "Development and Test of a Sociotechnical Model for Accident Occurrences in Underground Coal Mines" **Journal of the South African Institute of Mining and Metallurgy**, Vol. 105, No. 1, pp. 43-53, **available online 1st January 2005**. https://hdl.handle.net/10520/AJA0038223X_2990 **[SCIE WoS JCR Q4 Journal in 2005]** **Current Impact Factor:0.252**

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28. Sakinala, V. and Paul, P. S. (2022) "The Study of Work Posture and Whole-Body Vibration of Underground Mine Machinery Operators". Journal of Mines, Metals and Fuels, vol. 70(12A), pp. 115-119, doi:10.18311/jmmf/2022/29942.

29. Sakinala, V., **Paul, P. S.** and Chandrakar, S. (2022). "Assessment of Work Postures and Physical Workload of Machine Operators in Underground Coal Mines", **Journal of Institute of Engineers, India, Serious D, Springer Publication,** Vol. 104, pp. 87-98, https://doi.org/10.1007/s40033-022-00389-z **[Scopus Index Journal]**

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31. Mangal, A. and **Paul, P. S.** (2018). "A Framework to Evaluate Underground Mine Safety Performance by Using Bayesian Structural Equation Modelling", **The Journal of Mines, Metals and Fuels** Vol. 66, No. 9, pp. 585-590**.** **[Scopus Index Journal]**

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33. Das, A. J., Mandal, P. K., **Paul, P. S.** and Sinha, R. K. (2017). "Strategies for Underground Extraction of the Inclined Coal Seams", **Mining, Geological and Metallurgical Institute (India) Transactions**, Vol. 114, pg. 1-11

34. Raja, S., Mandal, P. K., **Paul, P. S.** and Das, A. J (2018). "Prediction of Coal Bump with Respect to Local Mine Stiffness and Post-Failure Stiffness using Numerical Modelling", **The Journal of Mines, Metals and Fuels,** Vol. 66, No. 6, pp. 328- 338**. [Scopus Index Journal]**

35. Mangal, A., Sarkar Falguni and **Paul, P. S.** (2017). "A Step toward Achieving a Zero Accident Potential in Indian Mining Industry", **The Journal of Mines, Metals and Fuels,** Vol. 65, No. 8, pp. 432- 437**.** **[Scopus Index Journal]**

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39. Mangal, A. and **Paul, P. S.** (2016). "Strata Behaviour Surveillance for Appraisal of Caving and Development of Smart System to Estimate Support Resistance in a PSLW Face in India: A Case Study", **Mining, Geological and Metallurgical Institute (India) Transactions**, Vol. 112 pp. 40-58.

40. Dohare, Y. S., Maity, T. and **Paul, P. S.** (2016). "Design of a Sensor Board for Underground Mines Environment Monitoring System", **Journal of Mines, Metals & Fuels**, Vol. 64, Nos 6, pp. 271-274. **[Scopus Index Journal]**

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43. Mangal, A. and **Paul, P. S.** (2015). "A Methodology, for Reliability, Availability and Maintainability of Load Haul Dumper in an Underground Coal Mine through Industrial Automation - A New Trend Setter", **Journal of Mines, Metals and Fuels**, Vol. 63, Nos 9, pp. 260-269 **[Scopus Index Journal]**

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52. Vikram S, P S Paul, S Anand and R M Bhattacharjee (2024). "Assessment of heat stress and dehydration in underground coalmines using machine learning (ML) techniques to improve occupational health and miners" productivity. **International Mine Ventilation Congress (IMVC), Sydney, Australia, 12–16 August 2024**. Pp: 195-203.

53. Vikram Sakinala, P.S. Paul, R.M. Bhattacharjee (Dec-2023). "Evaluation of Ergonomic Hazards of Machinery Operators in Underground Mines", International Conference on Safe, Smart and Sustainable Mining (3SM), Goa, India.

54. Vikram Sakinala and P. S. Paul and Sourabh Anand (2023). "Prediction of Heat Stress to Mitigate the Occupational Health Hazard in Mines", Proceedings of the Second International Conference on Emerging Trends in Engineering (ICETE 2023), Atlantis Press, Pg: 1318-1327, issn: 2352-5401, isbn: 978-94-6463-252-1, https://doi.org/10.2991/978-94-6463-252-1_132

55. Vikram Sakinala and P. S. Paul and Nitesh Rajwade (2023). "Prediction of Heat Stress to Mitigate the Occupational Health Hazard in Mines", Proceedings of the Second International Conference on Emerging Trends in Engineering (ICETE 2023), Atlantis Press, Pg: 1359-1366, issn: 2352-5401, isbn: 978-94-6463-252-1, https://doi.org/10.2991/978-94-6463-252-1_135

56. Paul, P. S., Mangal, A and Bhattacharjee, R. M. (2020) "Safety Maturity Model: A Safe Journey for Planning, Direction, Controlling and Resilient of Safety in Indian Coal Mines", Published in A National Seminar (RPAMI – 2020), Organized by the Department of Mining Engineering, VNIT, Nagpur during February, 21-22, 2020, pp. 434-439.

57. Raja, S., Paul, P. S. and Mandal, P. K. (2019). "Assessment of Bump-proneness of Underground Coal Mine by Strain Energy using Numerical Modelling – A Case Study", Proc. of International Conference and Exhibition on Energy & Environment: Challenges & Opportunities (ENCO), February 20 - 22, New Delhi, India, vol.2, pp. 796-806.

58. K Mishra, C N Ghosh, P S Paul, Prashant, S K Behera, P K Mandal. "Optimizing the Paste Fill Strength in the Stope: A Bayesian Network Modeling Approach". International Conference and Exhibition on energy & Environment: Challenges & Opportunities (ENCO), New Delhi, February 20-22, 2019, vol.2, pp. 738-743.

59. S. Chandrakar, P. S. Paul, C. Sawmliana, "Study of Narrow Vein Mining to Minimize the Unplanned Dilution in Underground Metal Mines – A Case Study", International Conference and Exhibition on energy & Environment: Challenges & Opportunities (ENCO), New Delhi, February 20-22, 2019, vol.2, pp. 716-720.

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61. S. Chandrakar, P. S. Paul, C. Sawmliana, "Single Shot Blasting of Long-Hole Drop Raising (LHDR) – A Case Study", National Conference on Rock Blasting Techniques (RBT-2018) organised by CSIR-CIMFR, Dhanbad, November, 23-24.

62. Das A. J., Mandal P. K., Paul P. S., Sinha R. K. and Tewari S. (2018). Rock mechanics considerations for mechanised extraction of an inclined coal seam. In proc. Recent Challenges in Mining Industry" (RCMI - 2018), 28th April, 2018, CSIR-CIMFR, Dhanbad, India, pp. 121-130.

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65. Mangal, A., Sarkar Falguni Paul, P. S. and Mahali, M. (2017). "The Influence of Leadership, Psychological Job Demands and Situation Awareness on the Willingness to Take Risk at Workplace in Hard Rock Mines – Development of A Conceptual Structural Equation Model", **Proceedings of the International Conference on "Deep Excavations, Energy resources & Production (DEEP16)**", Paper No: 171, pp 1-6, organizing by Department of Mining Engineering, IIT, Kharagpur, India during January 24-26, 2017.

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