LIST OF PUBLICATIONS

Journal Publications

Thesis Work (Published/Accepted/Under-Review)

1. **Sukhija, M.**, Saboo, N., & Pani, A. (2022) "Economic and environmental aspects of warm mix asphalt mixtures: A comparative analysis", **Transportation Research Part D: Transport and Environment**, 109, 103355.

2. **Sukhija, M.**, Wagh, V.P., Saboo, N. (2021) "Development of workability-based approach for assessment of production temperatures of warm mix asphalt mixtures", **Construction and Building Materials, Elsevier**, 305, 124808

3. **Sukhija, M.,** Saboo, N. (2021) "A comprehensive review of warm mix asphalt mixtures-laboratory to field", **Construction and Building Materials, Elsevier**, 274, 121781

4. Saboo, N., **Sukhija, M.**, Wagh, V.P., "A rational approach for estimation of production temperatures of warm mix asphalt (WMA)", **Indian Road Congress (IRC)**. (Under-review)

5. **Sukhija, M.**, Saboo, N., & Pani, A., "Moisture sensitivity of warm mix asphalt mixtures through different test approaches", **Journal of Materials in Civil Engineering, ASCE**. (Under-review)

6. **Sukhija M.**, Saboo, N., Pani, A., "Understanding the moisture sensitivity of warm mix asphalt binders based on bond strength mechanism", **ICE Proceedings-Transport**. (Under-review)

7. **Sukhija, M.**, Saboo, N., & Pani, A., "A study on the morphological, chemical, and physical characterization of WMA binders". **Petroleum Science and Technology, Taylor & Francis**. (Under-review)

Collaborative Explorations (Published/Accepted/Under-Review)

8. **Sukhija, M.**, Prasad, A. N., Saboo, N., & Mashaan, N. (2022) "Assessment of virgin binder-blended rejuvenators and antistripping agents for hot recycled asphalt mixture", **International Journal of Pavement Research and Technology, Springer**, 1-15

9. **Sukhija, M.**, Saboo, N., Yadav, A.K., Rath, C. (2021) "Laboratory study on the suitability of nano-silica as a modifier for asphalt binders", **Construction and Building Materials, Elsevier**, 302, 124406

10. **Sukhija, M.**, Chandrappa, A.K., Saboo, N. (2021) "Novel previous concrete paver blocks for sustainable pavements", **Journal of Testing and Evaluation, ASTM**, 50, 1

11. Saboo, N., **Sukhija, M.**, Chaudhary, M. (2021) "Relating asphalt binders response to LAS and LAOS tests at intermediate temperatures", **Mechanics of Time-Dependent Materials**, **Springer**, 24(1), 21-35

12. Saboo, N., **Sukhija, M.** (2021) "Effect of analysis procedures in linear amplitude sweep test on the fatigue resistance of nanoclay-modified asphalt binders", **Journal of Materials in Civil Engineering, ASCE**, 33(1), 04020417

13. Saboo, N., **Sukhija, M.**, Singh, G. (2021) "Effect of nanoclay on physical and rheological properties of waste cooking oil-modified asphalt binder", **Journal of Materials in Civil Engineering, ASCE**, 33(3), 04020490

14. Saboo, N., **Sukhija, M.** (2020) "Evaluating the suitability of nanoclay-modified asphalt binders from 10°C to 70°C", **Journal of Materials in Civil Engineering, ASCE**, 32(12), 04020393

15. Saboo, N., Prasad, A.N., **Sukhija, M.**, Chaudhary, M., Chandrappa, A.K. (2020) "Effect of the use of recycled asphalt pavement (RAP) aggregates on the performance of pervious paver blocks (PPB), **Construction and Building Materials, Elsevier,** 262, 120581

16. Dubey, P., Paswan, S., **Sukhija, M.**, Saboo, N. (2020) "Assessing the effect of reclaimed asphalt pavement on mechanical properties of dry-lean concrete", **Journal of Materials in Civil Engineering, ASCE**, 32(11), 04020348

17. Saboo, N., **Sukhija, M.**, Wagh, V.P., "Framework for mix design of pervious paver blocks: a film thickness index-based approach", **Journal of Materials in Civil Engineering, ASCE**, 35(1), 04022361

18. Choudhary, J., **Sukhija, M.**, Gupta, A., "A comparative Study on the Behavior of Bituminous Mastics Prepared with Waste Fillers", **Case Studies in Construction Materials, Elsevier**. 17, e01640

19. Saboo, N., **Sukhija, M.**, "Optimization of Aggregate Gradation in Hot Mix Asphalt Based on Film Thickness Index", **ICE Proceedings- Construction Materials.** (Under-review)

20. Saboo, N., **Sukhija, M**., Mehta, D., Haswanth, K., Srivastava, A., Patil, A., "Use of Raw Sugarcane Molasses as a Partial Replacement of Asphalt Binder: An Experimental Investigation", **Journal of Cleaner Production, Elsevier**. (Under-review)

Conferences and Book Chapters

1. Sukhija M., Saboo, N., Pani, A. (2022) "Study on estimation of optimum dosage of warm mix additives for production of asphalt mixtures", **2nd International Conference on Transportation Infrastructure Projects: Conception to Execution**.

2. **Sukhija, M.**, Saboo, N. (2020) "Rheological investigation on the rutting characteristics of nanoclay modified asphalt binders", **RILEM International Symposium on Bituminous Materials**, 1571-1577

3. **Sukhija, M.**, Saboo, N. (2020) "Influence of nanoclay in viscosity graded asphalt binder at different test temperatures", **Advances in Materials and Pavement Performance Prediction II: Contributions to the 2nd International Conference on Advances in Materials and Pavement Performance Prediction (AM3P 2020)**, 101

Manuscript Under Preparation

1. Effect of reduced ageing on the engineering performance of warm mix asphalt binders.
2. Correlating the rutting behavior of warm mix asphalt binders and mixtures.
3. Assessing the suitability of warm mix asphalt at intermediate temperature conditions.
4. Assessment of engineering, economic, and environmental suitability of warm mix asphalt mixtures.
5. Effect of aggregate substrate and binder grade on the bond strength of warm mix asphalt.

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