

References

- [1] C. J. Williams, W. H. Willis, and A. E. Shacat, "Research on Sustainable Paving," 2013.
- [2] V. Katiyar and S. Husain, "Environmental impacts of used oil," *Material Science Research India*, vol. 7, no. 1, pp. 245–248, 2010, doi: 10.13005/msri/070134.
- [3] P. C. Salter, "Research on Sustainable Paving," 2007.
- [4] R. Dinis-Almeida, et al., "Laboratory investigation on the properties of asphalt concrete mixture with GGBFS as filler," *IOP Conf. Ser.: Mater. Sci. Eng.*, vol. 557, 2013, doi: 10.1088/1757-899X/557/1/012063.
- [5] M. Sulyman, M. Sienkiewicz, and J. Haponiuk, "Asphalt pavement material improvement: A review," *Int. J. Environ. Sci. Dev.*, vol. 5, no. 11, pp. 999–1003, 2014, doi: 10.7763/IJESD.2014.V5.525.
- [6] Y. N. A. Kareem and M. A. Al-jumaili, "Improving the tensile strength and durability of asphalt concrete as a sustainable surface layer," *IOP Conf. Ser.: Mater. Sci. Eng.*, vol. 745, 2020, doi: 10.1088/1757-899X/745/1/012175.
- [7] R. Khan, M. T. Rahman, R. A. Tarefder, and M. Zaman, "Utilizing waste engine oil (WEO) in asphalt concrete mix: A sustainable approach," *Constr. Build. Mater.*, vol. 159, pp. 40–49, 2018, doi: 10.1016/j.conbuildmat.2017.10.095.
- [8] National Cooperative Highway Research Program (NCHRP), "NCHRP Report 405," Transportation Research Board, 1998.
- [9] H. Kang and Afrin, "Management and Design of Low Volume Roads," 2020.
- [10] S. G. Jahromi and A. Khodaii, "Effects of waste engine oil on asphalt mixtures properties," *J. Hazard. Mater.*, vol. 166, no. 1, pp. 243–249, 2009, doi: 10.1016/j.jhazmat.2008.11.047.

- [11] M. A. H. Al- and B. Mix, "Marshall properties and rutting resistance of hot mix asphalt with variable reclaimed asphalt pavement (RAP) content," IOP Conf. Ser.: Mater. Sci. Eng., vol. 271, no. 1, 2017, doi: 10.1088/1757-899X/271/1/012078.
- [12] Y. Yasanthi and R. Rengarasu, "Evaluation of Waste Engine Oil-Rejuvenated Asphalt Concrete Mixtures with High RAP Content," Adv. Mater. Sci. Eng., 2016, doi: 10.1155/2018/7386256.
- [13] T. Shoukat et al., "Rheological evaluation of asphalt modified," 22(Table 1), pp. 1–5, 2018.
- [14] A. Al-Hadidy and Y. Tan, "Improving asphalt mixture performance by partially replacing bitumen," 2009.
- [15] X. Jia, B. Huang, J. A. Moore, and S. Zhao, "Influence of Waste Engine Oil on Asphalt Mixtures Containing Reclaimed Asphalt Pavement," J. Mater. Civ. Eng., vol. 27, no. 12, pp. 1–9, 2015, doi: 10.1061/(ASCE)MT.1943-5533.0001292.
- [16] P. L. Roberts et al., "Repurposing waste oils into cleaner aged asphalt pavement materials," 1996.
- [17] J. M. Brown et al., "Rutting resistance of rubberized asphalt concrete," 2009.
- [18] B. Huang et al., "Utilization of waste engine oil in asphalt production," 2007.
- [19] C. Vazquez-Duhalt, "Management and Design of Low Volume Roads," 1989.
- [20] U.S. Environmental Protection Agency, "Managing, Reusing, and Recycling Used Oil," 2013.
- [21] I. Ahmad et al., "Utilization of waste engine oil in the energy sector," Renew. Sustain. Energy Rev., vol. 58, pp. 119-125, 2016, doi: 10.1016/j.rser.2015.12.160.

- [22] M. Chen, N. Ge, and S. Chen, "Performance evaluation of asphalt binder modified by bio-oil derived from waste cooking oil," *Constr. Build.Mater.*, vol. 66, pp. 481-489, 2014, doi: 10.1016/j.conbuildmat.2014.05.092.
- [23] F. Chen et al., "Performance evaluation," 2014.
- [24] Z. Zhou et al., "Characterization of waste cooking oil and waste engine oil," *J. Cleaner Prod.*, vol. 334, pp. 130230, 2016, doi: 10.1016/j.jclepro.2021.130230.
- [25] A. Al-Hdabi et al., "Engineering and environmental evaluation," 2019.
- [26] E. Gashi, H. Sadiku, and M. Misini, "A review of aggregate and asphalt mixture specific gravity measurements," *Int. J. Adv. Eng. Res. Sci.*, vol. 4, no. 5, pp. 195–201, 2017, doi: 10.22161/ijaers.4.5.31.
- [27] O. R. Khaleel, L. K. N. Al Gharbi, and M. M. Fayyadh, "Enhancing bitumen properties," *Sustainability (Switzerland)*, vol. 15, no. 12, 2023, doi: 10.3390/su15129298.
- [28] A. K. Banerji et al., "Characterization of waste cooking oil and waste engine oil," *Mater. Today: Proc.*, vol. 59, pp. 1694–1699, 2022, doi: 10.1016/j.matpr.2022.03.401.
- [29] H. Haibin et al., "Laboratory investigation of," 2022.
- [30] H. Wang et al., "Evaluation of waste engine oil modified asphalt mixtures," *J. Cleaner Prod.*, vol. 192, pp. 327-337, 2018, doi: 10.1016/j.jclepro.2018.04.261.