

REFERENCES

1. AASHTO (1989). "Resistance of compacted bituminous mixture to moisture induced damage." *T283*, Washington, DC.
2. AASHTO (1998). "Standard Test Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)." *TP5*, Washington, DC.
3. AASHTO (2002). "Standard Practice for Mixture Conditioning of Hot Mix Asphalt (HMA)." *R30*, Washington, DC.
4. AASHTO (2010). "Standard specification for performance-graded asphalt binder using Multiple Stress Creep Recovery (MSCR) Test." *M19*, Washington, DC.
5. AASHTO (2012). "Standard Method of Test for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)." *T315*, Washington, DC.
6. AASHTO (2020). "Standard Method of Test for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)." *T315*, Washington, DC.
7. AASHTO (2014). "Standard Method of Test for Multiple Stress Creep Recovery (MSCR) Test of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)." *T350*, Washington, DC.
8. AASHTO (2014). "Standard Method of Test for Estimating Damage Tolerance of Asphalt Binders Using the Linear Amplitude Sweep." *TP101-14*, Washington, DC.
9. AASHTO (2007). "Determining the Fatigue Life of Compacted Hot Mix Asphalt (HMA) Subjected to Repeated Flexural Bending." *T321-07*, Washington, DC.
10. Aburkaba, E. E., & Munaindy, R. (2010). "The use of industrial and by-product wastes as replacement of mineral fillers in stone mastic asphalt mixes." *In Proceedings of World Road Congress- Conference on Building and Infrastructure Technology*, Sarawak, Malaysia.
11. AGPT 02-10. (2010). "Guide to Pavement Technology, Part 2: Pavement Structural Design." *AUSTROADS Inc.*
12. Ahmedzade, P., Alataş, T., & Geçkil, T. (2007). "The effect of carbon black on the mechanical properties of asphalt mixtures." *Highway and Transportation Group, Faculty of Civil Engineering, Yazd University, Iran.*

13. Airey, G. D. (2003). "State of the art report on ageing test methods for bituminous pavement materials." *International Journal of Pavement Engineering*, 4(3), 165-176.
14. Airey, G. D., Collop, A. C., Zoorob, S. E., & Elliott, R. C. (2008). "The influence of aggregate, filler and bitumen on asphalt mixture moisture damage." *Construction and building materials*, 22(9), 2015-2024.
15. Akbulut, H., Gürer, C., Çetin, S., & Elmacı, A. (2012). "Investigation of using granite sludge as filler in bituminous hot mixtures." *Construction and Building Materials*, 36, 430-436.
16. Alfaqawi, R. M., Airey, G., Presti, D. L., & Grenfell, J. (2017). "Effects of Mineral Fillers on Bitumen Mastic Chemistry and Rheology." In *Transport Infrastructure and Systems: Proceedings of the AIIT International Congress on Transport Infrastructure and Systems*, Rome, 359, CRC Press.
17. Al-Hdabi, A. (2016). "Laboratory investigation on the properties of asphalt concrete mixture with Rice Husk Ash as filler." *Construction and Building Materials*, 126, 544-551.
18. Algin, H. M., & Turgut, P. (2008). "Cotton and limestone powder wastes as brick material." *Construction and Building Materials*, 22(6), 1074-1080.
19. Aljassar, A. H., Metwali, S., & Ali, M. A. (2004). "Effect of filler types on Marshall stability and retained strength of asphalt concrete." *International Journal of Pavement Engineering*, 5(1), 47-51.
20. Al-Khateeb, G., Stuart, K., Mogawer, W., & Gibson, N. (2008). "Fatigue performance: asphalt binder versus mixture versus full-scale pavements." *Canadian Journal of Transportation*, 2(1).
21. Anani, B. A., Balghunaim, F., & Swailmi, S. H. (1989). "Effects of field control of filler contents and compaction on asphalt mix properties." *Transportation Research Record*, 1217.
22. Anderson, D. A., & Goetz, W. H. (1973). "Mechanical behavior and reinforcement of mineral filler-asphalt mixtures." *Proceedings of Association of Asphalt Pavement Technologists*, 42, 37-66.
23. Anderson, D. A., and Kennedy, T. W. (1993). "Development of SHRP binder specification." *Proc. Association of Asphalt Paving Technologists*, 62, 481-507.
24. Antunes, V., Freire, A. C., Quaresma, L., & Micaelo, R. (2015). "Influence of the geometrical and physical properties of filler in the filler-bitumen interaction." *Construction and Building Materials*, 76, 322-329.

25. Antunes, V., Freire, A. C., Quaresma, L., & Micaelo, R. (2016). "Effect of the chemical composition of fillers in the filler-bitumen interaction." *Construction and Building Materials*, 104, 85-91.
26. Arabani, M., & Mirabdolazimi, S. M. (2011). "Experimental investigation of the fatigue behaviour of asphalt concrete mixtures containing waste iron powder." *Materials Science and Engineering: A*, 528 (10-11), 3866-3870.
27. Arabani, M., Tahami, S. A., & Taghipoor, M. (2017). "Laboratory investigation of hot mix asphalt containing waste materials." *Road Materials and Pavement Design*, 1-17.
28. Arambula, E., Caro, S., & Masad, E. (2010). "Experimental measurement and numerical simulation of water vapor diffusion through asphalt pavement materials." *Journal of Materials in Civil Engineering*, 22(6), 588-598.
29. Aschenbrener, T., McGennis, R. B., & Terrel, R. L. (1995). "Comparison of several moisture susceptibility tests to pavements of known field performance (with discussion and closure)." *Journal of the Association of Asphalt Paving Technologists*, 64.
30. Asi, I., & Assa'ad, A. (2005). "Effect of Jordanian oil shale fly ash on asphalt mixes." *Journal of Materials in Civil Engineering*, 17(5), 553-559.
31. AsphaltStB 07 (2007). "Technische Lieferbedingungen Für Asphaltmischgut Für Den Bau von Verkehrsflächenbefestigungen."
32. Asphalt Institute, (2014). "Mix Design Methods for Asphalt Concrete and Other Hot-Mix Types: Manual Series No. 2 (MS-2) 7th Ed."
33. ASTM D242 (2009). "Standard Specification for Mineral Filler for Asphalt Paving Mixtures." *ASTM*, West Conshohocken.
34. ASTM D422-63 (2007). "Standard Test Method for Particle-Size Analysis of Soils." *ASTM*, West Conshohocken.
35. ASTM D854-14 (2014). "Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer." *ASTM*, West Conshohocken.
36. ASTM D1559 (2004). "Test for resistance to plastic flow of bituminous mixture using Marshall apparatus." *ASTM*, West Conshohocken.
37. ASTM D1754-94 (1995a). "Standard Test Method for Effect of Heat and Air on Asphaltic Materials (Thin Film Oven Test)." *ASTM*, Philadelphia, USA.
38. ASTM D2872-88 (1995b). "Standard test method for effect of heat and air on a moving film of asphalt (rolling thin film oven test)." *ASTM*, Philadelphia, USA.

39. ASTM D2041 (2019). "Standard Test Method for Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures." *ASTM*, Philadelphia, USA.
40. ASTM D3625-12 (2005). "Standard Practice for Effect of Water on Bituminous Coated Aggregate Using Boiling Water." *ASTM*, West Conshohocken.
41. ASTM D4123-82 (1995). "Standard Test Method for Indirect Tension Test for Resilient Modulus of Bituminous Mixtures." *ASTM*, West Conshohocken.
42. ASTM D6927-15 (2015). "Standard Test Method for Marshall Stability and Flow of Asphalt Mixtures." *ASTM*, West Conshohocken.
43. ASTM D6931-12 (2012). "Indirect Tensile (IDT) Strength for Bituminous Mixtures." *ASTM*, West Conshohocken.
44. ASTM D7175-15 (2015). "Standard Test Method for Determining the Rheological Properties of Asphalt Binder using a Dynamic Shear Rheometer." *ASTM*, West Conshohocken.
45. ASTM D7460-10 (2010). "Standard Test Method for Determining Fatigue Failure of Compacted Asphalt Concrete Subjected to Repeated Flexural Bending." *ASTM*, West Conshohocken.
46. ASTM E986-04 (2010). "Standard Practice for Scanning Electron Microscope Beam Size Characterization." *ASTM*, West Conshohocken.
47. AUSTRROADS (2010). "Guide to Pavement Technology Part 2: Pavement Structural Design." *AUSTRROADS*, Sydney, New South Wales.
48. Bagampadde, U. (2004). "On Investigation of Stripping in Asphalt Mixes." *Ph.D. Thesis*, Karlstad University, Sweden.
49. Bagampadde, U., Isacson, U., & Kiggundu, B.M. (2005). "Influence of aggregate chemical and mineralogical composition on stripping in asphalt mixtures." *International Journal of Pavement Engineering*, 6(4), 229-239.
50. Bahia, H. U., Hislop, W. P., Zhai, H., & Rangel, A. (1998). "Classification of asphalt binders into simple and complex binders." *Journal of the Association of Asphalt Paving Technologists*, 67.
51. Bahia, H. U., Zeng, M., Zhai, H., Khatri, A. (1999). "Fourteenth Quarterly Progress Report for NCHRP Project 9-10, Superpave Protocols For Modified Asphalt Bitumens". Report submitted to NCHRP.
52. Bahia, H. U., Hanson, D. I., Zeng, M., Zhai, H., Khatri, M. A., & Anderson, R. M. (2001). "Characterization of modified asphalt binders in superpave mix design" (No. Project 9-10 FY'96)

53. Balghunaim, F. A. (1991). "Improving Adhesion Characteristics of Bituminous Mixes by Washing Dust-Contaminated Coarse Aggregates." *Transportation Research Record*, 1323.
54. Barra, B., Momm, L., Guerrero, Y., & Bernucci, L. (2014). "Characterization of granite and limestone powders for use as fillers in asphalt mastics dosage." *Anais da Academia Brasileira de Ciencias*, 86(2), 995-1002.
55. Bautista, E. G. (2015). "Experimental evaluation of the effect of coal combustion products on constructability, damage and aging resistance of asphalt mastics." *Ph.D. Thesis*. University of Wisconsin- Milwaukee, USA.
56. Bautista, E. G., Flickinger, J., Saha, R., Flores-Vivian, I., Faheem, A. F., & Sobolev, K. (2015). "Effect of Coal Combustion Products on high temperature performance of asphalt mastics." *Construction and Building Materials*, 94, 572-578.
57. Behera, P. K., Singh, A. K., & Amaranatha Reddy, M. (2013). "An alternative method for short-and long-term ageing for bitumen binders." *Road Materials and Pavement Design*, 14(2), 445-457.
58. Bell, C. A., Wieder, A. J., & Fellin, M. J. (1994). "Laboratory aging of asphalt-aggregate mixtures: Field validation." *SHRP-A-390*, National Research Council, Washington D.C.
59. Bennert, T., Haas, E., and Wass, E. (2018). "Indirect Tensile Test (IDT) to Determine Asphalt Mixture Performance Indicators during Quality Control Testing in New Jersey". *Transportation Research Record*, 2672(28), 394-403.
60. Bhasin, A., & Little, D. N. (2009). "Application of microcalorimeter to characterize adhesion between asphalt binders and aggregates." *Journal of Materials in Civil Engineering*, 21(6), 235-243.
61. Bidgoli, A., Naderi, M. K. & Nejad, M. F. (2019). "Effect of Filler Type on Moisture Susceptibility of Asphalt Mixtures Using Mechanical and Thermodynamic Properties." *Journal of Materials in Civil Engineering*, 31(4), 04019024.
62. Biligiri, K. P., Said, S., & Hakim, H. (2012). "Asphalt Mixtures' Crack Propagation Assessment using Semi-Circular Bending Tests." *International Journal of Pavement Research & Technology*, 5(4).
63. Bindu, K. S. (2012). "Influence of additives on the characteristics of Stone Matrix Asphalt." *Ph.D. Thesis*. Cochin University of Science and Technology.
64. Bocci, E. (2018). "Use of ladle furnace slag as filler in hot asphalt mixtures." *Construction and Building Materials*, 161, 156–164.

65. Bolden, J., Abu-Lebdeh, T., & Fini, E. (2013). "Utilization of recycled and waste materials in various construction applications." *American Journal of Environmental Sciences*, 9(1), 14.
66. Borhan, M. N., Ismail, A., & Rahmat, R. A. (2010). "Evaluation of palm oil fuel ash (POFA) on asphalt mixtures." *Australian Journal of Basic and Applied Sciences*, 4(10), 5456-5463.
67. Bostancioğlu, M., and Oruç, Ş. (2016). "Effect of activated carbon and furan resin on asphalt mixture performance." *Road Materials and Pavement Design*, 17(2), 512-525.
68. Bouldin, M., Dongré, R., & D'Angelo, J. (2001). "Proposed refinement of Superpave high-temperature specification parameter for performance-graded binders." *Transportation Research Record: Journal of the Transportation Research Board*, (1766), 40-47.
69. Brown, E., Haddock, J., & Crawford, C. (1996). "Investigation of stone matrix asphalt mortars." *Transportation Research Record: Journal of the Transportation Research Board*, (1530), 95-102.
70. Brown, E. R., & Cooley, L. A. (1999). "Designing of SMA for rut resistant pavements." *NCHRP Report 425*, National Cooperative Highway Research program.
71. Brown, S., & Scholz, T. V. (2000). "Development of laboratory protocols for the ageing of asphalt mixtures." In *Eurasphalt and Eurobitume Congress, 2nd, 2000, Barcelona, Spain*.
72. BS 598:111 (1995). "Sampling and examination of bituminous mixtures for roads and other paved areas Part 111: Method for determination of resistance to permanent deformation of bituminous mixtures subject to unconfined uniaxial loading." *BSI Group*.
73. BS EN 1097-4 (2008). "Tests for mechanical and physical properties of aggregates. Determination of the voids of dry compacted filler."
74. Buttlar, W. G., Bozkurt, D., Al-Khateeb, G. G., & Waldhoff, A. S. (1999). "Understanding asphalt mastic behavior through micromechanics." *Transportation Research Record*, 1681(1), 157-169.
75. Cardone, F., Frigio, F., Ferrotti, G., & Canestrari, F. (2015). "Influence of mineral fillers on the rheological response of polymer-modified bitumens and mastics." *Journal of Traffic and Transportation Engineering (English Edition)*, 2(6), 373-381.
76. Carswell, J., & Green, P. J. (2000). "Prediction of rutting resistance in hot rolled asphalt using rheological parameters." *The Asphalt Yearbook 2000*.

77. Castell, M. A., & Pintado, P. (1999). "Sensitivity analysis for estimation of pavement fatigue life." *Journal of transportation engineering*, 125(2), 114-122.
78. Cass, D. & Mukherjee, A. (2011). "Calculation of greenhouse gas emissions for highway construction operations by using a hybrid life-cycle assessment approach: case study for pavement operations." *Journal of Construction Engineering and Management*, 137(11), 1015-1025.
79. Celauro, B., Celauro, C., Presti, D. L., & Bevilacqua, A. (2012). "Definition of a laboratory optimization protocol for road bitumen improved with recycled tire rubber." *Construction and Building Materials*, 37, 562-572.
80. Chandra, S., & Choudhary, R. (2012). "Performance characteristics of bituminous concrete with industrial wastes as filler." *Journal of materials in civil engineering*, 25(11), 1666-1673.
81. Chen, M. Z., Lin, J. T., Wu, S. P., & Liu, C. H. (2011a). "Utilization of recycled brick powder as alternative filler in asphalt mixture." *Construction and Building Materials*, 25(4), 1532-1536.
82. Chen, M. Z., Lin, J. T., & Wu, S. P. (2011b). "Potential of recycled fine aggregate powder as filler in asphalt mixture." *Construction and Building Materials*, 25(10), 3909-3914.
83. Chipperfield, E. H., & Welch, T. R. (1967). "Studies on the relationships between the properties of road bitumens and their service performance." *Journal of the Association of Asphalt Paving Technologists*, 36, 421-488.
84. Choudhary, R. (2008). "Evaluation of bituminous concrete with different industrial wastes as filler." *Ph.D. Thesis*, Indian Institute of Technology (Roorkee), Roorkee, India
85. Christensen, D. W. and Anderson, D. A. (1992) "Interpretation of dynamic mechanical test data for paving grade asphalt cements." *Proc. Assn. Asphalt Paving Technol.* 61, 67-116.
86. Christensen, D. W., & Bonaquist, R. F. (2004). "Evaluation of indirect tensile test (IDT) procedures for low-temperature performance of hot mix asphalt (Vol. 530)." Transportation Research Board.
87. Clopotel, C., & Bahia, H. (2013). "The effect of bitumen polar groups adsorption on mastics properties at low temperatures." *Road Materials and Pavement Design*, 14(1), 38-51.
88. Cosme, R. L., Teixeira, J. E. S. L., & Calmon, J. L. (2016). "Use of frequency sweep and MSCR tests to characterize asphalt mastics containing ornamental stone residues and LD steel slag." *Construction and Building Materials*, 122, 556-566.

89. Cox, B. C., Smith, B. T., Howard, I. L., & James, R. S. (2017). "State of knowledge for Cantabro testing of dense graded asphalt." *Journal of Materials in Civil Engineering*, 29(10), 04017174.
90. CPCB (Central Pollution Control Board). (2007). "Assessment of utilization of Industrial solid wastes in cement manufacturing." Central Pollution Control Board, Delhi, India
91. Crauss, J., Ishai, I., & Sides, A. (1978). "Some physico-chemical aspects of the effect and the role of the filler in asphalt paving mixes." In *Proceedings of Association of Asphalt Paving Technologists*, 47, 558.
92. CRI (2019). Available From: <http://www.containerrecycling.org/assets/pdfs/reports/2019-SingleStream.pdf>. (Assessed on: 18/09/2019)
93. Cui, P., Wu, S., Xiao, Y., Wang, F., and Wang, F. (2019). "Quantitative evaluation of active based adhesion in Aggregate-Asphalt by digital image analysis." *Journal of Adhesion Science and Technology*, 1-14.
94. Curtis, C. W., Baik, J., & Jeon, Y. W. (1990). "Adsorption of asphalt and asphalt functionalities onto aggregates precoated with antistripping agents." *Transportation Research Record*, 1269.
95. Das, A. K., & Singh, D. (2017). "Investigation of rutting, fracture and thermal cracking behavior of asphalt mastic containing basalt and hydrated lime fillers." *Construction and Building Materials*, 141, 442-452.
96. Das, A. K., & Singh, D. (2018). "Effects of Basalt and Hydrated Lime Fillers on Rheological and Fracture Cracking Behavior of Polymer Modified Asphalt Mastic." *Journal of Materials in Civil Engineering*, 30(3), 04018011.
97. De Visscher, J., Soenen, H., Vanelstraete, A., & Redelius, P. (2004). "A Comparison of the Zero Shear Viscosity from Oscillation Tests and the Repeated Creep Test." *Proceedings of the 3rd Eurasphalt and Eurobitume Congress Held Vienna*, 2, 1501– 13
98. Diab, A., & Enieb, M. (2018). "Investigating influence of mineral filler at asphalt mixture and mastic scales." *International Journal of Pavement Research and Technology*, 11(3), 213-224.
99. Di Benedetto, H., De La Roche, C., Baaj, H., Pronk, A., & Lundström, R. (2004). "Fatigue of bituminous mixtures." *Materials and structures*, 37(3), 202-216.
100. Dolley, T.P. (2015). "Stone (Dimension), Minerals Commodity Summaries." *United States Geological Survey*, Reston, VA
101. Dongre, R., & D'Angelo, J. (2003). "Evaluation of different parameters for superpave high temperature binder specification based on rutting performance

- in the accelerated loading facility at FHWA.” *Transportation Research Record*, 1829, 455-487.
102. Dongre, R., D’Angelo, J., Reinke, G., & Shenoy, A. (2007). “New criterion for superpave high-temperature binder specification.” *Transportation Research Record*, 1875, 22-32.
103. Doyle, J. D., & Howard, I. L. (2016). “Characterization of dense-graded asphalt with the Cantabro test.” *Journal of Testing and Evaluation*, 44(1), 77-88.
104. D’Angelo, J., Kluttz, R., Dongre, R. N., Stephens, K., and Zanzotto, L. (2007). “Revision of the Superpave High Temperature Binder Specification: The Multiple Stress Creep Recovery Test (With Discussion).” *Journal of the Association of Asphalt Paving Technologists*, 76, 123–162.
105. D’Angelo, J., Reinke, G., Bahia, H., Wen, H., Johnson, C. M., & Marasteanu, M. (2010). "Development in Asphalt Binder Specifications." *Transportation Research Circular E-C147*, 1-13.
106. EAPA (2019). “Available From: <https://eapa.org/advantages-of-asphalt/>” (Assessed on 05/05/2019)
107. Economic Survey of India (2019). “Available From: <https://www.indiabudget.gov.in/economicsurvey/doc/echapter.pdf>” (Accessed on: 08/08/2019)
108. Edler, A. C., Hattingh, M. M., Servas, V. P. & Marais, C. P. (1985). “Use of ageing tests to determine the efficacy of hydrated lime additions to asphalt in retarding its oxidative hardening.” *Proc. Assn. Asphalt Paving Technol.* 54, 118–139
109. Einstein A. (1911). “BerichtigungzumeinerArbeit: EineneueBestimmung der Moleküldimensionen.” *Ann. Phys*, 34, 591–592.
110. EN 933-9 (1999). “Tests for Geometrical Properties of Aggregates—Part 9—Assessment of Fines Methylene Blue Test.”
111. EP (2009). “Construction Specifications Book. 15.03-Paving Methods (in Portuguese).”
112. EN 1744-1. (2010). “Test for chemical properties of aggregates. Chemical Analysis.”
113. EN 13043 (2004). “Aggregates for Asphalt Mixtures and Surface Treatments for Roads, Airfields and Other Trafficked Areas.”
114. Epps J. A. & Monismith C. L (1972). “Fatigue of Asphalt Concrete Mixtures—Summary of Existing Information.” *ASM STP 508: Fatigue of Compacted*

- Bituminous Aggregate Mixtures*, American Society for Testing and Materials, 19-45.
115. Epps Martin, A., Arambula, E., Yin, F., Garcia C. L., Chowdhury, A., Lytton, R., Park, E. S. (2014). "Evaluation of the moisture susceptibility of WMA technologies." *NCHRP Report 763*, National Cooperative Highway Research Program.
 116. Evans, A. G., (1972). "The strength of brittle materials containing second phase dispersions." *Philosophical Magazine*, 26(6), 1327-1344.
 117. Faheem, A. F., & Bahia, H. U. (2010). "Modelling of asphalt mastic in terms of filler-bitumen interaction." *Road Materials and Pavement Design*, 11(1), 281-303.
 118. Faheem, A., Bahia, H., & Ajideh, H. (2005). "Estimating results of a proposed simple performance test for hot-mix asphalt from Superpave gyratory compactor results." *Transportation Research Record: Journal of the Transportation Research Board*, (1929), 104-113.
 119. Faheem, A., Cloutier, C., Bautista, E. G., & Sobolev, K. (2017). "Impact of Coal Combustion Product Incorporation in Asphalt Mixture Performance." In *96th Annual Meeting of Transportation Research Board*, Washington D.C., 17-05853.
 120. Faheem, A., Hintz, C., Bahia, H., Al-Qadi, I., & Glidden, S. (2012). "Influence of filler fractional voids on mastic and mixture performance." *Transportation Research Record: Journal of the Transportation Research Board*, (2294), 74-80.
 121. Farcas, F. (1996). "Etude d'une methode de simulation du vieillissement sur route des bitumes." *Ph.D. Thesis*, Pierre and Marie Cury University, Paris, France.
 122. Farooque, K. N., Zaman, M., Halim, E., Islam, S., Hossain, M., Mollah, Y. A., & Mahmood, A. J. (2009). "Characterization and utilization of rice husk ash (RHA) from rice mills of Bangladesh." *Bangladesh Journal of Scientific and Industrial Research*, 44(2), 157-162.
 123. Fernández-Gómez, W. D., Rondón Quintana, H., & Reyes Lizcano, F. (2013). "A review of asphalt and asphalt mixture aging." *Ingenieria e investigacion*, 33(1), 5-12.
 124. Ferne, B. (2006). "Long-life pavements - A European study by ELLPAG". *International Journal of Pavement Engineering*, 7(2), 91-100.
 125. Federico, L. M., & Chidiac, S. E. (2009). "Waste glass as a supplementary cementitious material in concrete-Critical review of treatment methods." *Cement and concrete composites*, 31(8), 606-610.

126. French design manual (1997). “*French design manual for pavement structures LCPC/SETRA Ed.*”
127. Géber, R., & Gömze, L. A. (2010). “Characterization of mineral materials as asphalt fillers.” In *Materials Science Forum*, 659, 471-476.
128. Glover, C. J., Davison, R. R., Domke, C. H., Ruan, Y., Juristyarini, P., Knorr, D. B., & Jung, S. H. (2005). “Development of a new method for assessing asphalt binder durability with field validation.” *Texas Dept Transport*, 1872, 1-334.
129. Glover, C. J., Martin, A. E., Chowdhury, A., Han, R., Prapaitrakul, N., Jin, X., & Lawrence, J. (2009). “Evaluation of binder aging and its influence in aging of hot mix asphalt concrete: literature review and experimental design.” No. *FHWA/TX-08/0-6009-1*, Texas Transportation Institute.
130. Grabowski, W., & Wilanowicz, J. (2007). “The structure of mineral fillers and their stiffening properties in filler-bitumen mastics.” 793–804.
131. Griffin, R.L., Miles, T.K. and Penther, C.J. (1955) “Microfilm durability test for asphalt.” *Proc. Assn. Asphalt Paving Technol.*, 24, 31–62.
132. Gubler, R., Liu, Y., Anderson, D., & Partl, M. (1999). “Investigation of the system filler and asphalt binders by rheological means.” *Journal of Association of Asphalt Paving Technologists*, 68, 284-302.
133. Gul, M. A., Irfan, M., Ahmed, S., Ali, Y., & Khanzada, S. (2018). “Modelling and characterising the fatigue behaviour of asphaltic concrete mixtures.” *Construction and Building Materials*, 184, 723-732.
134. Gupta, C., & Prasad, A. (2018). “Variables controlling strength of lime stabilized jarosite waste.” *International Journal of Geo-Engineering*, 9(1), 6.
135. Gürer, C., & Selman, G. S. (2016). “Investigation of properties of asphalt concrete containing boron waste as mineral filler.” *Materials Science*, 22(1), 118-125.
136. Gezencvej, L.B. (1985). “*Asphalt Concrete for Road Surfaces.*” Moscow, 343.
137. Hajj, R., & Bhasin, A. (2018). “The search for a measure of fatigue cracking in asphalt binders—a review of different approaches.” *International Journal of Pavement Engineering*, 19(3), 205-219.
138. Hamada, H. M., Jokhio, G. A., Yahaya, F. M., Humada, A. M., & Gul, Y. (2018). “The present state of the use of palm oil fuel ash (POFA) in concrete.” *Construction and Building Materials*, 175, 26-40.
139. Hamdan, A. M., & El-Azzam, M. S. (1999). “Direct combustion of oil sale using a circulating fluidized bed combustor.” *Dirasat: Pure Sciences*, 26(2), 174-181.

140. Hamzah, M.O. and Yi, T.C., (2008). "Effects of temperature on resilient modulus of dense asphalt mixtures incorporating steel slag subjected to short term oven ageing. *World Academy of Science, Engineering and Technology*, 46, 221-225.
141. Harrigan, E. T. (2007). "*NCHRP Research Results Digest 324: Simulating the Effects of Hot Mix Asphalt Aging for Performance Testing and Pavement Structural Design.*" Transportation Research Board, Washington, DC, USA.
142. Harvey, J. A. F., & Cebon, D. (2003). "Failure mechanisms in viscoelastic films." *Journal of Materials Science*, 38(5), 1021-1032.
143. Harvey, J., & Tsai, B. W. (1997). "Long-term oven-aging effects on fatigue and initial stiffness of asphalt concrete." *Transportation Research Record*, 1590(1), 89-98.
144. Hassan, M. (2009). "Life-cycle assessment of warm-mix asphalt: an environmental and economic perspective." *Louisiana University, Civil Engineering Class*.
145. Hayton, B., Elliott, R.C., Airey, G. D., and Raynor, C. S. (1999) "Long term ageing of bituminous binders", *Proc. Eurobitume Workshop 99, Paper No. 126* (Luxembourg).
146. Heneash, U. (2013). "Effect of the Repeated Recycling on Hot Mix Asphalt Properties." *Ph.D. Thesis*, University of Nottingham, Nottingham, UK.
147. Hintz, C., Velasquez, R., Johnson, C., & Bahia, H. (2011). "Modification and validation of linear amplitude sweep test for binder fatigue specification." *Transportation Research Record*, 2207(1), 99-106.
148. Hodges, J. Overseas Road Note 19 (2002). "*Guide to the design of hot mix asphalt in tropical and subtropical countries.*" TRL Limited, Crowthorne, Berkshire, United Kingdom.
149. Hou, H., Wang, T., Wu, S., Xue, Y., Tan, R., Chen, J., & Zhou, M. (2016). "Investigation on the pavement performance of asphalt mixture based on predicted dynamic modulus." *Construction and Building Materials*, 106, 11-17
150. Houston, W. N., Mirza, M. W., Zapata, C. E., & Raghavendra, S. (2005). "Environmental effects in pavement mix and structural design systems." *NCHRP, Project*, 9-23.
151. Hrdlicka, G. M., Tandon, V., Prozzi, J., Smit, A., & Yildirim, Y. (2007). "Evaluation of binder tests for identifying rutting and cracking potential of modified asphalt binders." *No. FHWA/TX-07/0-4824-1*.

152. Huang, B., Shu, X., & Chen, X. (2007). "Effects of mineral fillers on hot-mix asphalt laboratory-measured properties." *International Journal of Pavement Engineering*, 8(1), 1-9.
153. Huang, B., Dong, Q., & Burdette, E. G. (2009). "Laboratory evaluation of incorporating waste ceramic materials into Portland cement and asphaltic concrete." *Construction and Building Materials*, 23(12), 3451-3456.
154. Huber, G. A., & Heiman, G. H. (1987). "Effect of asphalt concrete parameters on rutting performance: a field investigation (with discussion)." In *Association of Asphalt Paving Technologists Proc (Vol. 56)*.
155. Hveem, F.N., Zube, E. and Skog, J. (1963). "Proposed new tests and specifications for paving grade asphalts." *Proc. Assn. Asphalt Paving Technol.* 32, 247–327.
156. IBEF (2019): Available From: <https://www.ibef.org> > download > fmcg-march-2019 (Assessed on 16/06/2019)
157. IEA (2007). "Tracking industrial energy efficiency and CO₂ emissions." *OECD/IEA*, 1–321.
158. Inyim, P., Pereyra, J., Bienvenu, M., & Mostafavi, A. (2016). "Environmental assessment of pavement infrastructure: A systematic review." *Journal of Environmental Management*, 176, 128-138.
159. IRC: 37 (2018). "Guidelines for the Design of Flexible Pavements, 4th Revision." *Indian Roads Congress*, New Delhi, India.
160. IRC:111 (2009). "Specifications for Dense Graded Mixes." *Indian Road Congress*, New Delhi, India.
161. IS:73, (2013). "*Paving Bitumen-Specification (Second Revision)*".
162. IS:1202 (1978). "Methods for testing tar and bituminous materials: determination of specific gravity." *Bureau of Indian Standards*, New Delhi, India.
163. IS:1203 (1978). "Methods for testing tar and bituminous materials: determination of penetration." *Bureau of Indian Standards*, New Delhi, India.
164. IS:1205 (1978). "Methods for testing tar and bituminous materials: determination of softening point." *Bureau of Indian Standards*, New Delhi, India.
165. IS:1206 (Part 2) (1978). "Methods for testing tar and bituminous materials: determination of viscosity: absolute viscosity." *Bureau of Indian Standards*, New Delhi, India.

166. IS:1208 (1978). "Methods for testing tar and bituminous materials: determination of ductility." *Bureau of Indian Standards*, New Delhi, India.
167. IS:1209 (1978). "Methods for testing tar and bituminous materials: determination of flash and fire point." *Bureau of Indian Standards*, New Delhi, India.
168. IS:1216 (1978). "Methods for testing tar and bituminous materials: determination of solubility in calcium disulphide or sodium trichloroethylene." *Bureau of Indian Standards*, New Delhi, India.
169. IS:2386 (Part I) (1963). "Methods of test for aggregates for concrete." *Bureau of Indian Standards*, New Delhi, India.
170. IS:2386 (Part III) (1963). "Methods of test for aggregates for concrete." *Bureau of Indian Standards*, New Delhi, India.
171. IS:2386 (Part IV) (1963). "Methods of test for aggregates for concrete." *Bureau of Indian Standards*, New Delhi, India.
172. IS:2386 (Part V) (1963). "Methods of test for aggregates for concrete." *Bureau of Indian Standards*, New Delhi, India.
173. IS:2720 (Part 5) (1985). "Methods for test of soil: determination of liquid and plastic limits." *Bureau of Indian Standards*, New Delhi, India.
174. IS:6241 (1971). "Methods of test for determination of stripping value of road aggregates." *Bureau of Indian Standards*, New Delhi, India.
175. Ishai I., and Craus J (1977). "Effect of the Filler on Aggregate-Bitumen Adhesion Properties in Bituminous Mixtures." *Proc. Association of Asphalt Paving Technologists*, 228-258.
176. Islam, M. R., Hossain, M. I., & Tarefder, R. A. (2015). "A study of asphalt aging using Indirect Tensile Strength test." *Construction and Building Materials*, 95, 218-223.
177. ISSA (International Slurry Seal Association) (1989). "Test Method for Determination of Methylene Blue Absorption Value (MBV) of Mineral Aggregate Fillers and Fines." *ISSA Bulletin*, 145.
178. Jakarni F.M. (2012). "Adhesion of asphalt mixtures." *Ph.D. Thesis*. University of Nottingham.
179. Jenks, C. W., Jencks, C. F., Harrigan, E. T., Adcock, M., Delaney, E. P., & Freer, H. (2011). "NCHRP Report 673: A manual for design of hot mix asphalt with commentary." *Transportation Research Board, Washington, DC*.

180. Johansson, L. S., & Isacson, U. (1998). "Effect of filler on low temperature physical hardening of bitumen." *Construction and Building Materials*, 12(8), 463-470.
181. Johnson, C., Bahia, H., & Wen, H. (2009). "Practical application of viscoelastic continuum damage theory to asphalt binder fatigue characterization." *Journal of Asphalt Paving Technology*, 28, 597-638.
182. JTG E42 (2005). "Test Methods of Aggregate for Highway Engineering Research." *Institute of Highway Ministry of Transport*, Beijing (in Chinese)
183. Kakade, V. B. (2015). "Evaluation of hydrated lime modified bituminous mixes". *Ph.D. Thesis*. Indian Institute of Technology (Kharagpur), India.
184. Kakar, M. R., Hamzah, M. O., & Valentin, J. (2015). "A review on moisture damages of hot and warm mix asphalt and related investigations." *Journal of Cleaner Production*, 99, 39-58.
185. Kaloush, K., Witczak, M. W., Roque, R., Brown, S., D'Angelo, J., Marasteanu, M., & Masad, E. (2002). "Tertiary flow characteristics of asphalt mixtures." *In Asphalt Paving Technology*
186. Kandhal P.S. (1981). "Evaluation of baghouse fines in asphalt paving mixtures." *Proceedings of the association of asphalt paving technologists*, 50, 150-210.
187. Kandhal, P. S., & Chakraborty, S. (1996). "Effect of asphalt film thickness on short-and long-term aging of asphalt paving mixtures." *Transportation Research Record*, 1535(1), 83-90.
188. Kandhal, P. S., & Chakraborty, S. (1996). "Effect of asphalt film thickness on short-and long-term aging of asphalt paving mixtures." *Transportation Research Record*, 1535(1), 83-90.
189. Kandhal, P. S., & Cooley, L. A. (2003). "Accelerated laboratory rutting tests: Evaluation of the asphalt pavement analyzer (No. 508)." *Transportation Research Board*.
190. Kandhal, P., Lynn, C., & Parker, F. (1998). "Characterization tests for mineral fillers related to performance of asphalt paving mixes." *Transportation Research Record: Journal of the Transportation Research Board*, (1638), 101-110.
191. Karami, M., Nikraz, H., Sebayang, S., & Irianti, L. (2018). "Laboratory experiment on resilient modulus of BRA modified asphalt mixtures." *International Journal of Pavement Research and Technology*, 11(1), 38-46.
192. Karaşahin, M., & Terzi, S. (2007). "Evaluation of marble waste dust in the mixture of asphaltic concrete." *Construction and Building Materials*, 21(3), 616-620.

193. Kari, W. J. (1982). "Effect of construction practices on the asphalt properties in the mix." In *Proceedings of the Annual Conference of Canadian Technical Asphalt Association 27*, pp. 310-334.
194. Katamine, N. M. (2000). "Phosphate waste in mixtures to improve their deformation." *Journal of Transportation Engineering*, 126(5), 382-389.
195. Kavussi, A., & Hicks, R. G. (1997). "Properties of bituminous mixtures containing different fillers." *Journal of the Association of Asphalt Paving Technologists*, 66.
196. Kemp, G. R., & Predoehl, N. H. (1981). "A comparison of field and laboratory environments on asphalt durability." In *Association of Asphalt Paving Technologists Proceedings*, 50, 492-537.
197. Kennedy, T. W., Huber, G. A., Harrigan, E. T., Cominsky, R. J., Hughes, C. S., Von Quintus, H., & Moulthrop, J. S. (1994). "Superior performing asphalt pavements (Superpave): The product of the SHRP asphalt research program." Strategic Highway Research Program, National Research Council, *Report No. SHRP-A-410*.
198. Kiggundu, B. M. & Roberts, F. L. (1988). "Stripping in HMA Mixtures: State-of-the-art and Critical Review of Test Methods." *National Center for Asphalt Technology*.
199. Kiggundu, B. M., Humphrey, B. J., & Newman, J. K. (1986). "Determine Parameters Causing Water Damage to Asphalt Concrete." *No. NMERI-WA5-8 (5.03)*. University of New Mexico, Albuquerque, New Mexico.
200. Kim, Y. R., Little, D. N., & Song, I. (2003). "Effect of mineral fillers on fatigue resistance and fundamental material characteristics: mechanistic evaluation." *Transportation Research Record*, 1832(1), 1-8.
201. Kliewer, J. E., Bell, C. A., & Sosnovske, D. A. (1995). "Investigation of the relationship between field performance and laboratory aging properties of asphalt mixtures." In *Engineering Properties of Asphalt Mixtures and the Relationship to their Performance*. ASTM International.
202. Korayem, A. H., Ziari, H., Hajiloo, M., & Moniri, A. (2018). "Rutting and fatigue performance of asphalt mixtures containing amorphous carbon as filler and binder modifier." *Construction and Building Materials*, 188, 905-914.
203. Kuity, A., Jayaprakasan, S., & Das, A. (2014). "Laboratory investigation on volume proportioning scheme of mineral fillers in asphalt mixture." *Construction and Building Materials*, 68, 637-643.
204. Kumari, M., Ransinchung, G. D. R. N., & Singh, S. (2018). "A laboratory investigation on Dense Bituminous Macadam containing different fractions of coarse and fine RAP." *Construction and Building Materials*, 191, 655-666.

205. Kumari, M., Ransinchung, G. D., & Singh, S. (2019). "Effect of long-term ageing on properties of RAP inclusive WMA mixes." *Construction and Building Materials*, 206, 483-493.
206. Kuttah, D. K., Sato, K., & Koga, C. (2015). "Evaluating the dynamic stabilities of asphalt concrete mixtures incorporating plasterboard wastes." *International Journal of Pavement Engineering*, 16(10), 929-938.
207. Lackner, R. & Spiegl M. (2005). "Is low-temperature creep of asphalt mastic independent of filler shape and mineralogy?-Arguments from multiscale analysis." *J. Mater. Civ. Eng.*, 17, 485-491.
208. Lackner, R., Spiegl, M., Blab, R., & Eberhardsteiner, J. (2005). "Is low-temperature creep of asphalt mastic independent of filler shape and mineralogy?—arguments from multiscale analysis." *Journal of Materials in Civil Engineering*, 17(5), 485-491.
209. Lee, D. Y. (1973). "Asphalt durability correlation in Iowa." *Transportation Research Record*, 468, 43-60.
210. Lee S (2007). "Investigation of the Effects of Lime on the Performance of HMA using Advanced Testing and Modelling Techniques." *Ph.D. Thesis*, North Carolina State University.
211. Lee, S., Seo, Y., & Kim, Y. R. (2010). "Effect of hydrated lime on dynamic modulus of asphalt-aggregate mixtures in the state of North Carolina." *KSCE Journal of Civil Engineering*, 14(6), 829-837.
212. Lesueur, D. (2009). "The colloidal structure of bitumen: Consequences on the rheology and on the mechanisms of bitumen modification." *Advances in colloid and interface science*, 145(1-2), 42-82.
213. Lesueur, D., & Little, D. N. (1999). "Effect of hydrated lime on rheology, fracture, and aging of bitumen." *Transportation Research Record*, 1661(1), 93-105.
214. Lesueur, D., Petit, J., & Ritter, H. J. (2013). "The mechanisms of hydrated lime modification of asphalt mixtures: a state-of-the-art review." *Road materials and pavement design*, 14(1), 1-16.
215. Lesueur, D., Teixeira, A., Lázaro, M. M., Andaluz, D., & Ruiz, A. (2016). "A simple test method in order to assess the effect of mineral fillers on bitumen ageing." *Construction and Building Materials*, 117, 182-189.
216. Li, C., Chen, Z., Wu, S., Li, B., Xie, J., & Xiao, Y. (2017). "Effects of steel slag fillers on the rheological properties of asphalt mastic." *Construction and Building Materials*, 145, 383-391.
217. Li, C., Xiao, Y., Chen, Z., & Wu, S. (2016). "Crack resistance of asphalt mixture with steel slag powder." *Emerging Materials Research*, 6(1), 214-218.

-
218. Liao, M. C., Chen, J. S., & Tsou, K. W. (2012). "Fatigue characteristics of bitumen-filler mastics and asphalt mixtures." *Journal of Materials in Civil Engineering*, 24(7), 916-923.
219. Little D. N (1995). "*Handbook for Stabilization of Pavement Subgrades and Base Courses with Lime*". Dubuque (Iowa, USA): Kendall/Hunt Publishing Company.
220. Little, D. N. & Epps, J. A., (2001). "The Benefits of Hydrated Lime in Hot Mix Asphalt." *Report prepared for National Lime Association*.
221. Little, D. N., & Jones, D. R. (2003). "Chemical and mechanical mechanisms of moisture damage in hot mix asphalt pavements." In *National Seminar in Moisture Sensitivity, San Diego, California* (Vol. 22).
222. Loorents, K. J., & Said, S. F. (2009). "On mineralogical composition of filler and performance of asphalt concrete." *International Journal of Pavement Engineering*, 10(4), 299-309.
223. Lund, J. W., & Wilson, J. E. (1984). "Evaluation of asphalt aging in Hot Mix Plants." *Journal of the Association of Asphalt Paving Technologists*, 53, 1-18.
224. Majidzadeh, K. (1968). "Effect of Water on Bitumen-Aggregate Mixture." *Special Report 98*, Highway Research Board.
225. Maleka, A. M., Alkali, I. A., & Jaya, R. P. (2014). "The Indirect Tensile Strength of Palm Oil Fuel Ash (POFA) Modified Asphaltic Concrete." *Applied Mechanics & Materials*.
226. Marasteanu, M., Clyne, T., McGraw, J., Li, X., & Velasquez, R. (2005). "High temperature rheological properties of asphalt binders." *Transportation Research Record: Journal of the Transportation Research Board*, 1901, 52-59.
227. Martin, A. E. (2014). "Evaluation of the moisture susceptibility of WMA technologies, Vol 763". *Transportation Research Board*.
228. Martin, A. E., & Park, D. W. (2003). "Use of the asphalt pavement analyzer and repeated simple shear test at constant height to augment superpave volumetric mix design." *Journal of transportation Engineering*, 129(5), 522-530
229. Matos, P., Micaelo, R., Duarte, C., & Quaresma, L. (2014). "Influence of bitumen and filler on the selection of appropriate mixing and compaction temperatures." *International Journal of Pavement Research and Technology*, 7(4), 237-246.
230. Masoudi, S., Abtahi, S. M., & Goli, A. (2017). "Evaluation of electric arc furnace steel slag coarse aggregate in warm mix asphalt subjected to long-term aging." *Construction and Building Materials*, 135, 260-266.

231. Mazzoni, G., Stimilli, A., & Canestrari, F. (2016). "Self-healing capability and thixotropy of bituminous mastics." *International Journal of Fatigue*, 92, 8-17.
232. McHattie, R. L. (1983). "Estimating the Durability of Chem-Crete Modified Paving Asphalt". *Alaska Department of Transportation*.
233. Medina, C., Frías, M., & Rojas, M. I. S. De. (2012). "Microstructure and properties of recycled concretes using ceramic sanitary ware industry waste as coarse aggregate." *Construction and Building Materials*, 31, 112–118.
234. Melotti, R., Santagata, E., Bassani, M., Salvo, M., & Rizzo, S. (2013). "A preliminary investigation into the physical and chemical properties of biomass ashes used as aggregate fillers for bituminous mixtures." *Waste management*, 33(9), 1906-1917.
235. Miró, R., Martínez, A. H., Pérez-Jiménez, F. E., Botella, R., & Álvarez, A. (2017). "Effect of filler nature and content on the bituminous mastic behaviour under cyclic loads." *Construction and Building Materials*, 132, 33-42.
236. Mistry, R., Karmakar, S., & Kumar Roy, T. (2018). "Experimental evaluation of rice husk ash and fly ash as alternative fillers in hot-mix asphalt." *Road Materials and Pavement Design*, 20(4), 979-990.
237. Modarres, A., & Bengar, P. A. (2017). "Investigating the indirect tensile stiffness, toughness and fatigue life of hot mix asphalt containing copper slag powder." *International Journal of Pavement Engineering*, 1-9.
238. Modarres, A., & Rahmanzadeh, M. (2014). Application of coal waste powder as filler in hot mix asphalt. *Construction and Building Materials*, 66, 476-483.
239. Modarres, A., Rahmanzadeh, M., & Ayar, P. (2015a). "Effect of coal waste powder in hot mix asphalt compared to conventional fillers: mix mechanical properties and environmental impacts." *Journal of Cleaner Production*, 91, 262-268.
240. Modarres, A., Ramyar, H., & Ayar, P. (2015b). "Effect of cement kiln dust on the low-temperature durability and fatigue life of hot mix asphalt." *Cold Regions Science and Technology*, 110, 59-66.
241. Mohajerani, A., Vajna, J., Cheung, T. H. H., Kurmus, H., Arulrajah, A., & Horpibulsuk, S. (2017). "Practical recycling applications of crushed waste glass in construction materials: A review." *Construction and Building Materials*, 156, 443-467.
242. Moraes, R., & Bahia, H. U. (2015). "Effect of mineral filler on changes in molecular size distribution of asphalts during oxidative ageing." *Road Materials and Pavement Design*, 16(2), 55-72.

243. Mogawer, W., Bennert, T., Daniel, J. S., Bonaquist, R., Austerman, A., & Booshehrian, A. (2012). "Performance characteristics of plant produced high RAP mixtures." *Road Materials and Pavement Design*, 13(1), 183-208.
244. Mogawer, W. S. & Stuart, K. D. (1996). "Effects of Mineral Fillers on Properties of Stone Matrix Asphalt Mixtures." *Transportation Research Record*, 1530, 86–94.
245. Moghaddam, T. B., Soltani, M., and Karim, M. R. (2014). "Experimental characterization of rutting performance of polyethylene terephthalate modified asphalt mixtures under static and dynamic loads." *Construction and Building Materials*, 65, 487-494.
246. Monismith, C. L., & Deacon, J. A. (1969). "Fatigue of asphalt paving mixtures." *Transportation Engineering Journal of ASCE*, 95(2), 317-346.
247. Monismith, C. L., Tangella, S. C. S., Craus, J., & Deacon, J. A. (1990). "Summary Report on Fatigue Response of Asphalt Mixtures." *Report TM-UCB-A-003A-89-3*, University of California Berkley.
248. Morian, N., Hajj, E. Y., Glover, C. J., & Sebaaly, P. E. (2011). "Oxidative aging of asphalt binders in hot-mix asphalt mixtures." *Transportation Research Record*, 2207(1), 107-116.
249. MoRTH (Ministry of Road Transport and Highways) (2001). "Specifications for Road and Bridge Works (Fourth Revision)." *Indian Road Congress*.
250. MoRTH (Ministry of Road Transport and Highways) (2013). "Specifications for Road and Bridge Works (Fifth Revision)." *Indian Road Congress*.
251. MoRTH (Ministry of Road Transport and Highways) (2019): "Available From:https://morth.nic.in/sites/default/files/Basic%20Road_Statics_of_India.pdf" (Assessed on 13/07/2019)
252. Motamed, A., Bhasin, A., & Liechti, K. M. (2014). "Using the poker-chip test for determining the bulk modulus of asphalt binders." *Mechanics of Time-Dependent Materials*, 18(1), 197-215.
253. Movilla-Quesada, D., Raposeiras, A. C., Muñoz, O., & Castro-Fresno, D. (2017). "Reduction in the use of mineral aggregate by recycling cellulose ashes to decrease the aging of hot asphalt mixtures." *Construction and Building Materials*, 143, 547-557.
254. Muniandy, R., & Aburkaba, E. (2011). "The effect of type and particle size of industrial wastes filler on Indirect Tensile Stiffness and Fatigue performance of Stone Mastic Asphalt Mixtures." *Australian Journal of Basic and Applied Sciences*, 5(11), 297-308.
255. Muniandy, R., Aburkaba, E., Yunus, R., Hamid, H., & Salihudin, H. (2012). "Influence of mineral filler particle size and type on rheological and

- performance properties of SMA asphalt-filler mastics.” *Asian Journal of Applied Sciences*, 5(8), 522–537.
256. Muniandy, R., Aburkaba, E., & Taha, R. (2013). “Effect of mineral filler type and particle size on the engineering properties of stone mastic asphalt pavements.” *TJER*, 10(2), 13-32.
257. Muniandy, R., Aburkaba, E.E., Hamid, H.B, & Yunus, R.B.T. (2009). “An initial investigation of the use of local industrial wastes and by-products as mineral fillers in stone mastic asphalt pavements.” *Journal of Engineering and Applied Sciences*, 4(3), 54–63.
258. NAPA (National Asphalt Pavement Association) (1999). “*Evaluation of baghouse fines for hot mix asphalt. Information Series. Vol. 127.*” Lanham, MD.
259. NASEM (National Academies of Sciences, Engineering, and Medicine) (2011). “*A Manual for Design of Hot-Mix Asphalt with Commentary.*” Washington, DC: The National Academies Press. <https://doi.org/10.17226/14524>.
260. Nazer, A., Paya, J., Victoria, M.B., Monzo, J. (2016). “Use of ancient copper slags in Portland cement and alkali activated cement matrices.” *Journal of Environmental Management*, 167 (1), 115–123.
261. NBM&CW (2019): “Available from: <https://www.nbmcw.com/tech-articles/roads-and-pavements/18233-sustainable-pavements-in-india-the-time-to-start-is-now.html>” (Assessed on 21/07/2019)
262. NCHRP 1-37A (2004). “Guide for mechanistic-empirical design of new and rehabilitated pavement structures.” *Final report*, Prepared for National Cooperative Highway Research Program, National Research Council, Transportation Research Board of the National Academics: Washington, DC.
263. Nguyen, M. T., Lee, H. J., & Baek, J. (2013). “Fatigue analysis of asphalt concrete under indirect tensile mode of loading using crack images.” *Journal of Testing and Evaluation*, 41(1), 148-158.
264. NLT-352/86 (1986). “Caracterización de las mezclas bituminosas abiertas por medio del ensayo cántabro de pérdida por desgaste. Espanha.”
265. NLT 362/92 (1992). “Water effect on the cohesion of bituminous mixtures with open gradations, through the Cantabro abrasion test (In Spanish).” *Centro de Estudios y Experimentación de Obras Públicas*, Spain.
266. Oliver, J. W., & Tredrea, P. F. (1998). “Relationships between asphalt rut resistance and binder rheological properties.” *Journal of the Association of Asphalt Paving Technologists*, 67.

267. Pappu, A., Saxena, M., & Asolekar, S. R. (2007). "Solid wastes generation in India and their recycling potential in building materials." *Building and environment*, 42(6), 2311-2320.
268. Paramguru, R. K., Rath, P. C., & Misra, V. N. (2005). "Trends in red mud utilization—a review." *Mineral Processing & Extractive Metall. Rev.*, 26(1), 1-29.
269. Park, S. B., Lee, B. C., & Kim, J. H. (2004). "Studies on mechanical properties of concrete containing waste glass aggregate." *Cement and concrete research*, 34(12), 2181-2189.
270. Parmeggiani, G. (2000). "Nitrogen rolling thin film oven test." In *Proc. 2nd Euraspalt & Eurobitume Congress*, Barcelona, pp 432–437
271. Pasandin, A. R., Ignacio, P., Antonio R., & Miguel M. C. (2016). "Moisture damage resistance of hot-mix asphalt made with paper industry wastes as filler." *Journal of Cleaner Production*, 112, 853-862.
272. Pasandin, A. R., & Pérez, I. (2015). "The influence of the mineral filler on the adhesion between aggregates and bitumen." *International Journal of Adhesion and Adhesives*, 58, 53–58.
273. Pellinen, T., & Witczak, M. (2002). "Use of stiffness of hot-mix asphalt as a simple performance test." *Transportation Research Record*, 1789, 80-90
274. Pereira-de-Oliveira, L. A., Castro-Gomes, J. P., & Santos, P. M. (2012). "The potential pozzolanic activity of glass and red-clay ceramic waste as cement mortars components." *Construction and Building Materials*, 31, 197-203.
275. Petersen, J. C. (1989). "A thin film accelerated aging test for evaluating asphalt oxidative aging (with discussion)." *Association of Asphalt Paving Technologists Proc*, 58.
276. Petersen, J. C. (2000). "Chemical composition of asphalt as related to asphalt durability." *Developments in Petroleum Science*, 40, 363-399.
277. Petersen, J. C., Dorrence, S. M., Ensley, E. K., Barbour, F. A., Barbour, R. V., & Haines, W. E. (1974). "Paving Asphalts: Chemical Composition, Oxidative Weathering, and Asphalt-Aggregate Interactions." *Part II (No. FHWA-RD-74-071)*. United States. Federal Highway Administration.
278. Petersen, J. C., & Harnsberger, P. M. (1998). Asphalt aging: dual oxidation mechanism and its interrelationships with asphalt composition and oxidative age hardening. *Transportation Research Record*, 1638(1), 47-55.
279. Petersen, J. C., Plancher, H., & Harnsberger, P. M. (1987). "Lime treatment of asphalt to reduce age hardening and improve flow properties." In *Association of Asphalt Paving Technologists Proceedings Technical Sessions*, Vol. 56, Reno, Nevada, USA.

280. Pietzsch, N., Ribeiro, J. L. D., & de Medeiros, J. F. (2017). "Benefits, challenges and critical factors of success for Zero Waste: A systematic literature review." *Waste management*, 67, 324-353.
281. Prowell, B. D., Zhang, J & Brown, E. R (2005). "Aggregate properties and the performance of superpave – Designed hot mix asphalt." *NCHRP Report 539*, Transportation research board, Washington D.C.
282. Qian, G., Bai, S., Ju, S., Huang, T., (2012). "Laboratory evaluation on recycling waste phosphorus slag as the mineral filler in hot-mix asphalt." *Journal of Materials in Civil Engineering* 25(7), 846-850.
283. Radhakrishnan, V. (2017). "Evaluation of rutting potential of bituminous mixes." *Ph.D. Thesis*. Indian Institute of Technology (Kharagpur), India.
284. Ramadan, K. Z., & Ashteyat, A. M. (2009). "Utilization of white cement bypass dust as filler in asphalt concrete mixes." *Canadian Journal of Civil Engineering*, 36(2), 191-195.
285. Rana, A., Kalla, P., Verma, H. K., & Mohnot, J. K. (2016). "Recycling of dimensional stone waste in concrete: A review." *Journal of cleaner production*, 135, 312-331.
286. Rana, A., Kalla, P., & Csetenyi, L. J. (2017). "Recycling of dimension limestone industry waste in concrete." *International Journal of Mining, Reclamation and Environment*, 31(4), 231-250.
287. Ranjbar, N., Mehrali, M., Alengaram, U. J., Metselaar, H. S. C., & Jumaat, M. Z. (2014). "Compressive strength and microstructural analysis of fly ash/palm oil fuel ash based geopolymer mortar under elevated temperatures." *Construction and Building Materials*, 65, 114-121.
288. Recasens, R. M., Martínez, A., Jimenez, F. P., & Bianchetto, H. (2005). "Effect of filler on the aging potential of asphalt mixtures." *Transportation Research Record*, 1901(1), 10-17.
289. Read, J. & Whiteoak D. (2003). "*The Shell Bitumen Handbook, Fifth Edition*." Thomas Telford Publishing, London.
290. Reddy, D. R. (2017). "Development of models for resilient modulus and time lag for bituminous mixes." *Ph.D. Thesis*. Indian Institute of Technology (Kharagpur), Kharagpur, India.
291. Reed, J. (2010). "Evaluation of the Effects of Aging on Asphalt Rubber Pavements." *Ph.D. Thesis*, Arizona State University, Tempe, USA.
292. Rice, J. M. (1958). "Relationship of aggregate characteristics to the effect of water on bituminous paving mixtures." In *Symposium on effect of water on bituminous paving mixtures*. ASTM International.

293. Richardson, C. (1905). *"The Modern Asphalt Pavement."* J. Wiley and Sons, New York.
294. Rieksts, K., Pettinari, M., & Haritonovs, V. (2019). "The influence of filler type and gradation on the rheological performance of mastics." *Road Materials and Pavement Design*, 20(4), 964-978.
295. Rigden, P. J. (1947). "The use of fillers in asphalt road surfacings. A study of filler-binder systems in relation to filler characteristics." *Journal of the Society of Chemical Industry*, 66(9), 299-309.
296. Robati, M., Carter, A., & Perraton, D. (2015). "New conceptual model for filler stiffening effect on asphalt mastic of microsurfacing." *Journal of Materials in Civil Engineering*, 27(11), 04015033.
297. Roberts, F. L., Kandhal, P. S., Brown, E. R., Lee, D. Y., & Kennedy, T. W. (1996). "Hot mix asphalt materials, mixture design and construction." *National Asphalt Pavement Association Education Foundation*, Lanham, Md.
298. Rochlani, M., Leischner, S., Falla, G. C., Wang, D., Caro, S., & Wellner, F. (2019). "Influence of filler properties on the rheological, cryogenic, fatigue and rutting performance of mastics." *Construction and Building Materials*, 227, 116974.
299. Rolt, J. (2000). "Top-down cracking: myth or reality." In *The World Bank regional seminar on innovative road rehabilitation and recycling technologies, Amman, Jordan*, 24-26.
300. Rowe, G. M., King, G., & Anderson, M. (2014). "The influence of binder rheology on the cracking of asphalt mixes in airport and highway projects." *Journal of Testing and Evaluation*, 42(5), 1063-1072.
301. Roy, N., Veeraragavan, A., & Krishnan, J. M. (2016). "Influence of confinement pressure and air voids on the repeated creep and recovery of asphalt concrete mixtures." *International Journal of Pavement Engineering*, 17(2), 133-147
302. Saboo, N. (2015). "Strength characteristics of polymer modified asphalt binders and mixes." *Ph.D. Thesis*. Indian Institute of Technology (Roorkee), India
303. Saboo, N., & Kumar, P. (2016). "Analysis of different test methods for quantifying rutting susceptibility of asphalt binders." *Journal of Materials in Civil Engineering*, 28(7), 04016024.
304. Saboo, N., Kumar, R., Kumar, P., and Gupta, A. (2018). "Ranking the Rheological Response of SBS-and EVA-Modified Bitumen using MSCR and LAS Tests." *Journal of Materials in Civil Engineering*, 10.1061/(ASCE)MT.1943-5533.0002367.

305. Saha, G., & Biligiri, K. P. (2015). "Fracture damage evaluation of asphalt mixtures using Semi-Circular Bending test based on fracture energy approach." *Engineering Fracture Mechanics*, 142, 154-169.
306. Said, S. F., Loorents, K. J., & Hakim, H. (2009). "Impact of mica content on water sensitivity of asphalt concrete." *International Journal of Pavement Engineering*, 10(1), 1-8.
307. Saltan, M., Öksüz, B., & Uz, V. E. (2015). "Use of glass waste as mineral filler in hot mix asphalt." *Science and Engineering of Composite Materials*, 22(3), 271-277.
308. Sakanlou, F., Shirmohammadi, H., & Hamed, G. H. (2018). "Investigating the effect of filler types on thermodynamic parameters and their relationship with moisture sensitivity of asphalt mixes." *Materials and Structures*, 51(2), 39.
309. Sanij, H. K., Meybodi, P. A., Hormozaky, M. A., Hosseini, S. H., & Olazar, M. (2019). "Evaluation of performance and moisture sensitivity of glass-containing warm mix asphalt modified with zycotherm as an anti-stripping additive." *Construction and Building Materials*, 197, 185-194.
310. Schmidt, R.L. (1973). "Laboratory measurement of the durability of paving asphalts." *ASTM STP 532*, American Society of Testing and Materials, 79-99.
311. Schmidt, R.L. and Santucci, L.E. (1969) "The effects of asphalt properties on the fatigue cracking of asphalt concrete on the Zaca-Wigmore Test Project", *Proc. Assn. Asphalt Paving Technol.* 38, 39-64.
312. Scott, J. A. N. (1978). "Adhesion and disbonding mechanisms of asphalt used in highway construction and maintenance." In *Association of Asphalt Paving Technologists Proc*, Vol. 47.
313. Sharma, V., Chandra, S., & Choudhary, R. (2010). "Characterization of fly ash bituminous concrete mixes." *Journal of Materials in Civil Engineering*, 22(12), 1209-1216.
314. Shenoy, A. (2001). "Refinement of the Superpave specification parameter for performance grading of asphalt." *Journal of Transportation Engineering*, 127(5), 357-362.
315. Shenoy, A. (2004). "High Temperature Performance Grading of Asphalts through a Specification Criterion that Could Capture Field Performance." *Journal of Transportation Engineering*, 130(1), 132-137.
316. Si, W., Li, N., Ma, B., Tian, Y. X., and Zhou, X. Y. (2016). "Temperature response to tensile characteristics of the hot asphalt mixtures." *KSCE Journal of Civil Engineering*, 20(4), 1336-1346.

317. Sirin, O., Paul, D. K., & Kassem, E. (2018a). "State of the art study on aging of asphalt mixtures and use of antioxidant additives." *Advances in Civil Engineering, 2018*.
318. Sirin, O., Ohiduzzaman, M., Kassem, E., & Paul, D. K. (2018b). "Comprehensive evaluation of long-term aging of asphalt mixtures in hot climatic condition." *Road Materials and Pavement Design, 1-23*.
319. Sivakumar, V., Glynn, D., Cairns, P., & Black, J. A. (2009). "A new method of measuring plastic limit of fine materials." *Géotechnique, 59(10)*, 813-823.
320. Smith, B. J. (2001). "Low-temperature and dynamic fatigue toughening mechanisms in asphalt mastics and mixtures." *Postgraduate Dissertation, Kingston: Queen's University*.
321. Smith, B. J., & Hesp, S. A. (2000). "Crack pinning in asphalt mastic and concrete: regular fatigue studies." *Transportation Research Record, 1728(1)*, 75-81.
322. Sobolev, K., Vivian, I. F., Saha, R., Wasiuddin, N. M., & Saltibus, N. E. (2014). "The effect of fly ash on the rheological properties of bituminous materials." *Fuel, 116*, 471-477.
323. Sousa, J. B., Craus, J., & Monismith, C. L. (1991). "Summary report on permanent deformation in asphalt concrete" *SHRP-A-318*, National Research Council, Washington D.C.
324. South African Pavement Design Manual (2013). "Chapter 10, Second Edition, South African National Roads Agency SOC Ltd." *Republic of South Africa*.
325. SP-1 (2003), "*Superpave Series No.1, Superpave Performance Graded Asphalt Binder Specification and Testing: 3rd Edition*" Asphalt Institute, Research Park Drive, Lexington, KY.
326. Sreedhar, S., Jichkar, P. & Biligiri, K. P., (2016). "Investigation of Carbon Footprints of Highway Construction Materials in India." *Transportation Research Procedia, 17*, 291-300.
327. Sridharan, A., & Sivapullaiah, P. V. (2005). "Mini compaction test apparatus for fine grained soils." *Geotechnical Testing Journal, 28(3)*, 240-246.
328. Sultana, S., & Bhasin, A. (2014). "Effect of chemical composition on rheology and mechanical properties of asphalt binder." *Construction and Building Materials, 72*, 293-300.
329. Stuart, K. D. (1990). "Moisture damage in asphalt mixtures-a state-of-the-art report." *FHWA-RD-90-019*, FHWA.
330. Stuart, K. D., Mogawer, W. S., & Romero, P. (1999). "Validation of asphalt binder and mixture tests that measure rutting susceptibility using the

- accelerated loading facility." *Federal Highway Administration*. Washington, DC.
331. Sybilski, D. (2015). "Zero-Shear Viscosity of Bituminous Binder and Its Relation to Bituminous Mixture's Rutting Resistance." *Transportation Research Record, 1535*, 15-21.
332. Taha, R., Al-Rawas, A., Al-Harthy, A., & Qatan, A. (2002). "Use of cement bypass dust as filler in asphalt concrete mixtures." *Journal of Materials in Civil Engineering, 14*(4), 338-343.
333. Tan, K. H., & Du, H. (2013). "Use of waste glass as sand in mortar: Part I—Fresh, mechanical and durability properties." *Cement and Concrete Composites, 35*(1), 109-117.
334. Tangella R., Crauss J., Deacon J.A., and Monismith C.L (1990). "Summary Report of Fatigue Response of Asphalt Mixtures." *Technical Memorandum No. TM-UCB-A-003A-89-3m*, Institute of Transportation Studies, University of California, Berkeley.
335. Tarrer, A., & Wagh, V. (1991). "The effect of the physical and chemical characteristics of the aggregate on bonding." Strategic Highway Research Program. *Report No. SHRP-A/UWP-91-510*.
336. Tasneem, K. M. (2014). "Beneficial Utilization of Municipal Solid Waste Incineration Ashes." *M.S Thesis*, University of Central Florida, Orlando, USA.
337. Tayebali, A., Malpass, G., & Khosla, N. (1998). "Effect of mineral filler type and amount on design and performance of asphalt concrete mixtures." *Journal of the Transportation Research Board, 1609*, 36–43.
338. Tayebali, A., Khosla, N., Malpass, G., & Waller, H. (1999). "Evaluation of superpave repeated shear at constant height test to predict rutting potential of mixes: Performance of three pavement sections in North Carolina." *Transportation Research Record, 1681*, 97-105.
339. Taylor R. (2007). "Surface interactions between bitumen and mineral fillers and their effects on the rheology of bitumen–filler mastics." *Ph.D. Thesis*, University of Nottingham, UK.
340. Taylor, M. A., & Khosla, N. P. (1983). "*Stripping of asphalt pavements: State of the art.*" *Transportation Research Board, 911*, Washington D.C.
341. Tenza-Abril, A. J., Saval, J. M., & Cuenca, A. (2014). "Using sewage-sludge ash as filler in asphalt mixes." *Journal of Materials in Civil Engineering, 27*(4)
342. Terrel, R. L., & Holen, D. J. (1976). "Performance of asphalt concrete pavement mixtures produced by the drum mixer process." In *Association of Asphalt Paving Technologists Proc, 45*, 169–198.

343. Thunqvist, E. L. (2001). "Long-term Effects of Deicing Salt on the Roadside Environment: Part II: Groundwater and Surface Water." In *Transportation Research Board Conference Proceedings*, No. 23.
344. Topal, A., & Sengoz, B. (2008). "Effect of SBS polymer modified bitumen on the ageing properties of asphalt." In *Proceedings of 4th Eurasphalt And Eurobitume Congress*, May 2008, Copenhagen, Denmark.
345. Topçu, İ. B., Boğa, A. R., & Bilir, T. (2008). "Alkali-silica reactions of mortars produced by using waste glass as fine aggregate and admixtures such as fly ash and Li_2CO_3 ". *Waste Management*, 28(5), 878-884.
346. Traxler, R. N. (1961). "Relation between asphalt composition and hardening by volatilization and oxidation." In *Assoc Asphalt Paving Technol Proc. Vol. 30*, 359-377.
347. Traxler, R.N. (1963). "Durability of asphalt cements." *Proc. Assn. Asphalt Paving Technol. 32*, 44-58.
348. UN data (2016). "Available from: <http://data.un.org/Data.aspx?d=ICS&f=cmID:33500-3>" (Assessed on 16/07/2016)
349. US EPA (2013). "Available from: https://www.epa.gov/sites/production/files/201509/documents/2013_advncng_smm_fs.pdf"
350. Vale, A., Faxina, A., & Gutierrez G, F. (2016). "Effects of filler/bitumen ratio and bitumen grade on rutting and fatigue characteristics of bituminous mastics." In *6th Eurasphalt & Eurobitume Congress, Prague*, DOI: dx. doi.org/10.14311/EE.
351. Verhasselt, A. F. and Choquet, F. S. (1991). "A new approach to studying the kinetics of bitumen ageing." *Int. Symp. Chem. Bitumens, Vol. II*, 686-705.
352. Vlachovicova, Z., Wekumbura, C., Stastna, J., and Zanzotto, L. (2007). "Creep characteristics of asphalt modified by radial styrene-butadiene-styrene copolymer." *Construction and Building Materials*, 21, 567-577.
353. Walubita, L. F., Zhang, J., Das, G., Hu, X., Mushota, C., Alvarez, A. E., & Scullion, T. (2012). "Comparison of the Hamburg, dynamic modulus, and repeated load tests for evaluation of HMA permanent deformation." In *91st Transportation Research Board Annual Meeting*, Washington D.C
354. Wang, H., Al-Qadi, I. L., Faheem, A. F., Bahia, H. U., Yang, S. H., & Reinke, G. H. (2011). "Effect of mineral filler characteristics on asphalt mastic and mixture rutting potential." *Transportation Research Record*, 2208(1), 33-39.
355. Wang, C., & Zhang, J. (2014). "Evaluation of rutting parameters of asphalt binder based on rheological test." *International Journal of Engineering and Technology*, 6(1), 30.

356. West, R.C., & James, R. S. (2006). "Evaluation of a lime kiln dust as a mineral filler for stone matrix asphalt." *Transportation Research Board*, 750, 1-18.
357. Whiteoak, O. (1991). "Handbook of shell asphalts." *Shell Bitumen, UK*.
358. White, T. W., Haddock, J. E., & Rismantojo, E (2006). "Aggregate tests for hot mix asphalt mixtures used in pavements." *NCHRP Report 557*, Transportation research board, Washington D. C.
359. Winniford, R. (1961). "The influence of asphalt composition on its rheology." In *Papers on Road and Paving Materials (Bituminous)*. ASTM International.
360. Wisneski, M. L., Chaffin, J. M., Davison, R. R., Bullin, J. A., & Glover, C. J. (1996). "Use of lime in recycling asphalt." *Transportation Research Record*, 1535(1), 117-123.
361. Witczak, M.W., Kaloush, K., Pellinen, T., El-Basyouny, M., & Von Quintus, H. (2002). "Simple performance test for superpave mix design." *NCHRP Report 465*, National Academy Press, Washington. D. C
362. Wu, S., Yang, W., and Xue, Y., (2007). "Preparation and properties of glass-asphalt concrete." *Wuham University of Technology: Key Laboratory for Silicate Materials Science and Engineering of Ministry of Education*.
363. Xing, B., Fan, W., Zhuang, C., Qian, C., & Lv, X. (2019). "Effects of the morphological characteristics of mineral powder fillers on the rheological properties of asphalt mastics at high and medium temperatures." *Powder Technology*, 348, 33-42.
364. Xu, P., Chen, Z., Cai, J., Pei, J., Gao, J., Zhang, J., & Zhang, J. (2019). "The effect of retreated coal wastes as filler on the performance of asphalt mastics and mixtures." *Construction and Building Materials*, 203, 9-17.
365. Yin, F., Arámbula-Mercado, E., Epps Martin, A., Newcomb, D., & Tran, N. (2017). "Long-term ageing of asphalt mixtures." *Road Materials and Pavement Design*, 18(1), 2-27.
366. Yoshizawa, S., Tanaka, M. and Shekdar, A.V. (2004). "Global Trends in Waste Generation." *Recycling, Waste Treatment and Clean Technology*, TMS Mineral, Metals and Materials Publishers, 1541-1552.
367. Yusoff, N. I. M. (2012). "Modelling the Linear Viscoelastic Rheological Properties of Bituminous Binders." *PhD Thesis*, University of Nottingham.
368. Zainudin, M. Z. M., Khairuddin, F. H., Ng, C.P., Osmi, C., Khadijah, S., Misnon, N., & Murniati, S. (2016). "Effect of Sugarcane Bagasse Ash as Filler in Hot mix Asphalt." *Material Science Forum*, 846, 683-689.

369. Zejiao, D., Zhiyang, L., Yuan, W., & Xiangbing, G. (2017). "Effects of Aggregates Mineralogy on Rheology of Asphalt Mastics." In *96th Annual Meeting of Transportation Research Board*, 1–15, Washington D.C, USA.
370. Zhang, J., Alvarez, A. E., Lee, S. I., Torres, A., & Walubita, L. F. (2013). "Comparison of flow number, dynamic modulus, and repeated load tests for evaluation of HMA permanent deformation." *Construction and Building Materials*, 44, 391-398
371. Zhang, H., Li, H., Zhang, Y., Wang, D., Harvey, J., & Wang, H. (2018). Performance enhancement of porous asphalt pavement using red mud as alternative filler. *Construction and Building Materials*, 160, 707-713.
372. Zhou, F., Mogawer, W., Li, H., Andriescu, A., & Copeland, A. (2012). "Evaluation of fatigue tests for characterizing asphalt binders." *Journal of Materials in Civil Engineering*, 25(5), 610-617.
373. Zhu, H., & Nodes, J. E. (2000). "Contact based analysis of asphalt pavement with the effect of aggregate angularity." *Mechanics of Materials*, 32(3), 193-202.
374. Zoorob, S. E., Castro-Gomes, J. P., Pereira Oliveira, L. A., & O'Connell, J. (2012). "Investigating the Multiple Stress Creep Recovery bitumen characterisation test." *Construction and Building Material*, 30, 734–745.
375. Zulkati, A., Wong, Y. D., & Sun, D. D. (2012). "Mechanistic performance of asphalt-concrete mixture incorporating coarse recycled concrete aggregate." *Journal of Materials in Civil Engineering*, 25(9), 1299-1305.