



Recent Advances in Asphalt Materials and Their Applications

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Message from the Guest Editor

Granular layers, comprising unbound aggregates, are placed on top of the subgrade to provide stability, drainage, and support to a pavement system. Research in the past has focused on gaining a better understanding of the mentioned factors, with a particular view to virgin aggregate (VA). Recycled concrete aggregate (RCA) is a type of aggregate produced after the dismantling of concrete pavement and structures. In contrast, reclaimed asphalt pavement (RAP) aggregates display hydrophobic characteristics. However, the asphalt coating of the aggregate may cause softening in warm climates and resultantly prove counterproductive for use in pavements.

The use of steel slag in the unbound layers has also been a research topic in the recent past. Crushed brick is another recycled material that can replace VA in sub-base layers. It may stabilize a pavement system in some cases, but further durability analyses are needed to ensure its effectiveness. The research community has recently devoted much attention to mechanical methods with which to support unbound material in granular layers.

Contributions to this Special Issue from the Asphalt Materials and Their Applications are invited.





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Message from the Editor-in-Chief

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