

Special Issue

Sustainability in Asphalt Pavement and Road Construction

Message from the Guest Editors

Nowadays, the methods of recycling pavement structures are increasingly being used. Certain types of waste and bio-materials are also used in order to construct roads at a lower price and with a reduction in the negative impact on the environment. Additionally, special additives and methods of production and construction are used in asphalt mixtures to obtain self-healing asphalts. Special methods of production and installation of asphalt are also being developed, contributing to the improvement of the quality of asphalt mixtures and road construction. Certain methods, such as the Life Cycle Assessment (LCA) and Life Cycle Cost Analysis (LCCA), are used to better predict economic costs and environmental impacts. Topics of this Special Issue include, but are not limited to:

- Asphalt pavement recycling mixtures;
- The use of bio- and waste materials in pavement structures;
- Innovative methods for the production and installation of asphalt mixtures;
- Self-healing binders and asphalt mixtures.

In addition to the mentioned possible topics, it is also possible for scientific and practical achievements to be made in the area of the sustainability of asphalt pavements.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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