Special Issue

Modern Asphalt Pavements: From Constituent Material Characteristics to Pavement Performance and Applications

Message from the Guest Editors

Currently, many new materials and techniques are being introduced to road construction in attempts to shift the industry to a more energy-efficient and sustainable trajectory. Incentives toward these goals are provided by global and government strategies, but these shifts may be also attractive to investors and contractors on their own, due to the possible reductions of construction costs. However, one has to bear in mind that road infrastructure projects are expensive and take long to finish, and that their role is key in the growth of the world's economies. Therefore, it is crucial that the reliability and service life of these new types of pavements are assured. In the advent of new materials and methods in road construction, it is necessary to evaluate their impacts on the long-term performance of pavements. The main emphasis of this Special Issue is on the relationships between the properties of asphalt mixture constituents (asphalt binders, aggregates, additives) and the performance of asphalt mixtures and pavements produced using modern methods. Therefore, we encourage results linking laboratory and large-scale performance of materials.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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