

Special Issue

Asphalt Pavement: Materials, Design and Characterization

Message from the Guest Editors

Asphalt pavement is usually used to pave the surface of pavements, which are directly affected by vehicle load and atmospheric factors. At the same time, the physical and mechanical properties of asphalt mixture are greatly affected by climate and time factors. Over recent decades, asphalt pavement materials and design guides have developed dramatically, and, as a consequence, material behaviors and the pavement response have changed significantly. In this case, new methods and materials are needed to support the research and development of asphalt pavement. Hence, this Special Issue focuses on asphalt pavement materials, design, and characterization. The particular topics of interest for this Special Issue include, but are not restricted to:

- Resource utilization of asphalt;
- The use of renewable materials for asphalt pavements;
- The re-use of waste materials and industrial byproducts;
- Performance evaluation and prediction;
- Numerical modeling of interfacial asphalt–aggregate systems;
- Pavement monitoring and smart roads;
- Late-model pavement materials and structures.

Guest Editors

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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