Special Issue

Recent Development in Novel Green Asphalt Materials for Pavement

Message from the Guest Editors

Since entering the 21st century, the emergence of new functional materials and the development of interdisciplinary have provided strong support for the design and construction of green asphalt materials. In recent decades, the composition and property of asphalt paving materials has changed dramatically and, consequently, the development of green, sustainable, and functional materials is a new challenge that researchers are facing to tackle the aforementioned needs. This Special Issue shall highlight the latest trends in the novel green asphalt materials. Research areas may include (but are not limited to) the following:

- Applications of novel asphalt pavement materials;
- Polymer bonding materials;
- Polymer and fiber-modified asphalt materials;
- Microstructure and chemical component characterization of asphalt materials;
- Temperature-reduced production and paving of asphalt mixtures;
- Cracking and healing in asphalt mixtures;
- Asphalt fume pollution prevention and control;
- Automotive exhaust degradation materials;
- Recycling for waste asphalt pavement materials;
- Biomass asphalt material.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (20 February 2024)

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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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